

Assistant Architecture Multiple choice Questions & Answers

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Assistant Architecture Objective type Questions & Answers

Dear readers, these **Assistant Architecture Multiple choice Questions** have been designed specially to get you acquainted with the nature of questions you may encounter during your Job interview for the subject of **Assistant Architecture**. As per my experience good interviewers hardly plan to ask any particular question during your Job interview, normally questions start with some basic concept of the subject and later they continue based on further discussion and what you answer:

1. perpendicular offset form the junction of transition curve and curricular curve to the tangent is equal to

- A. shift
- B. two times the shift
- C. three times the shift
- D. four times the shift

Ans: D



Assistant Architecture Multiple choice Questions

2. If the radius of circular curve is five times the length of the transition curve, then the spiral angle is given by

- A. 1/5 radian
- B. 1/10 radian
- C. 1/20 radian

D. 1/40 radian

Ans: D

4. If an upgrade of 1-5% is followed by a downgrade of 0.5% and rate of change of grade is 0.2% per 20m chain, then the length of vertical is

A. 100m

B. 200m

C. 300m

D. 400m

Ans: B

5. By plane table surveying

A. field work alone is possible

B. plotting alone is possible

C. both field work and plotting has are possible simultaneously

D. both field work in the field and plotting on office are possible

Ans: C

6. The plots intended for residential purposes in a municipal area should not be less than

A. 80 m²

B. 120m²

C. 160m²

D. 200m²

Ans: D

7. The plot size in residential layouts in corporation limits for row housing in m² is

A. 50-100

B. 100-150

C. 150-200

D. 200

Ans: A

8. In the double application of principle of reversion, the apparent error is

- A. equal to true error
- B. half the true error
- C. two times the true error
- D. four times the true error

Ans: D

9. The maximum value of centrifugal ratio on roads and railways respectively are taken as

- A. $1/4$ and $1/6$
- B. $1/6$ and $1/8$
- C. $1/4$ and $1/8$
- D. $1/8$ and $1/4$

Ans: C

10. Agonic line is the line joining points having

- A. Zero declination
- B. minimum declination
- C. maximum declination
- D. declination

Ans: A

11. The difference in elevation of points between a vertical and a tangent is

- A. directly proportional to its horizontal distance from the point of tangency
- B. inversely proportional to its horizontal distance from the point of tangency
- C. directly proportional to the square of its horizontal distance from the point of tangency
- D. inversely proportional to the square of its horizontal distance from the point of tangency

Ans: C

12. The type of pointing in which the mortar is first pressed into the raked joints and then finished off flush with the edges of the bricks or stones, is called

- A. flust pointing
- B. struck pointing
- C. V-grooved pointing
- D. tuck pointing

Ans: A

13. A block of stone or concrete provided under the end of tie beam to spread the load from the roof over a large area of bearing, is called

- A. gable
- B. hip
- C. verge
- D. template

Ans: D

14. The horizontal members of wood or steel used to support the common rafter of a sloping roof, are called

- A. purlins
- B. cleats
- C. hip rafters
- D. valley rafters

Ans: A

15. The type of pointing in which the mortar is first pressed into the raked joint and then finished off flush with the face of the bricks or stones is called

- A. flush pointing
- B. struck pointing
- C. V-grooved pointing
- D. tuck pointing

Ans: D

16. The efficiency of a riveted joint is :

- A. Tearing efficiency
- B. Shearing efficiency

C. Crushing efficiency

D. Least of the above

Ans: B

17. The efficiency of pile group is

A. always less than one

B. always more than one

C. always equal to one

D. less than, equal to or more than one

Ans: A

18. Read the following two statements and select the correct answer

i) Shift bisects the transition curve

ii) Transition curve bisects the shift

A. only (i) is correct

B. only (ii) correct

C. both (i) and (ii) are correct

D. neither (i) nor (ii) is correct

Ans: C

19. A curve tangential to four straight lines and consisting of arcs of different radii is known as

A. one centered compound curve

B. two centered compound curve

C. three centered compound curve

D. four centered compound curve

Ans: C

20. If the degree of a curve is 10, then radius of the curve is equal to

A. 5400 m

B. 1720m

C. 123m

D. m

Ans: B

22. for the computation of areas, which rule is most accurate?

A. Mid-ordinate rule

B. Average Ordinate rule

C. Trapezoidal rule

D. Simpson's rule

Ans: D

23. A pantograph is used for

A. Measuring

B. measuring distances on maps

C. reproducing, enlarging or reducing the maps

D. Measuring vertical angles

Ans: C

24. The apparent movement of the image of the staff relative to the cross hairs is known as

A. shift

B. slint

C. parallax error

D. sight error

Ans: C

25. A working profile gives

A. ground levels only

B. formation levels only

C. difference in ground levels & formation levels

D. all of the above

Ans: D

26. The error in the staff readings due to curvature of the earth when the length of sight is 1 Km is

- A. -0.0785 m
- B. +0.0785 m
- C. -0.0667 m
- D. +0.0667 m

Ans: A

27. The vertical distance between the upper surface of the successive treads is known as 'going of step'

- A. true
- B. false

Ans: B

28. The brick flooring is used in

- A. workshops
- B. godowns
- C. verandahs
- D. none of these

Ans: B

29. The flooring made with small pieces of broken tiles of china glazed or of marble arranged in different pattern, is known as

- A. asphalt flooring
- B. mosaic flooring
- C. terrazo flooring
- D. granolithic flooring

Ans: B

30. In stairs, the flier is

- A. a vertical portion of a step providing a support to the tread
- B. a straight step having a parallel width of tread
- C. the under surface of a stair

D. the angle which the line of nosing of the stair makes with the horizontal

Ans: B

31. The maximum velocity of flow is limited to about 3 m/sec, though in practice it should preferably not exceed

A. 2 m/sec

B. 2.25 m/sec

C. 2.5m/sec

D. 3 m/sec

Ans: B

32. The circular section of a sewer is very common but it is best suitable when diameter is up to

A. 0.75 m

B. 1.25m

C. 1.5m

D. 3m

Ans: D

33. While designing a sewerage system, the span of design period is generally taken as

A. one year

B. 5 years

C. 10 years

D. 20 years

Ans: D

35. The longest time without unreasonable delay, the would be required for a drop of water to flow from the upper limit of the drainage area to the point where concentration or the maximum effect of flood considered, is known as

A. inlet time

B. time of flow

C. time of concentration

D. time-intensity

Ans: C

36. The time required for first drops of rain water to flow from the distant points of water shed to the head of the sewer or drain is known as

- A. inlet time
- B. time of flow
- C. time of concentration
- D. time intensity

Ans: A

37. In question no.89 the R.L of last point

- A. is greater than R.L of first point
- B. is same As R.L of first point
- C. is smaller than R.L of first point
- D. cannot be determined from the given data

Ans: C

40. The distance between centre to centre of two adjacent rivet holes should not be less than

- A. 1.5 times the diameter of rivet hole
- B. 1.5 times the diameter of rivet
- C. 1.5 times the diameter of rivet head
- D. 2.5 times the diameter of rivet

Ans: D

41. If an up grade of +1% on first class railway is followed by a down grade of -2%, then the length of vertical curve will be

- A. 20 chains
- B. 40 chains
- C. 50 chains
- D. 80 chains

Ans: C

42. An outline or ----- should never be used as a dimension line

- A. inner line
- B. centre line
- C. outer line
- D. Perpendicular

Ans: B

43. Mutual crossing of dimension lines and dimensioning between ----- should be avoided

- A. dotted line
- B. straight line
- C. curved line
- D. dashed line

Ans: D

44. The recommended rate of change of grade for second class railways per 20-m distance at sages is

- A. 0.12%
- B. 0.1%
- C. 0.8%
- D. 0.06%

Ans: D

45. The distance between centre to centre of any two adjacent rivets shall not exceed by ___ when the rivets do not lie in the direction of stresses

- A. 12xthickness of the thinnest plate
- B. 16x thickness of the thinnest plate
- C. 32xthickness of the thinnest plate
- D. 32xdiameter of the rivet used

Ans: C

46. A surveyor's chain is made of

- A. cast iron

- B. stainless steel
- C. aluminium
- D. galvanized mild steel

Ans: B

47. If a chain is found to be short, it can be adjusted by

- A. straightening the bent links
- B. removing one or more circular rings
- C. closing the joints that have opened out
- D. any of the above

Ans: A

48. A telescope is said to be inverted if its

- A. vertical circle is to its right and the bubble of the telescope is down
- B. vertical circle is to its right and the bubble of the telescope is up
- C. vertical circle is to its left and the bubble of the telescope is down
- D. vertical circle is to its left and the bubble of the telescope is up

Ans: A

49. The cross hairs in the surveying telescope are placed

- A. midway between eye piece and objective lens
- B. much closer to the eye piece than to the objective lens
- C. much closer to the objective lens than to the eye piece
- D. anywhere between eye piece and objective lens

Ans: B

50. The foundation in a building is provided to

- A. distribute the load over a large area
- B. increase overall stability of the structure
- C. transmit load to the bearing surface (sub soil) at a uniform rate
- D. all of the above

Ans: D

Questions related to Architecture and Design



Ella Avedissian

- asked a question related to Architecture and Design

How will museums of the future look like?

Question

3 answers

- Oct 27, 2020

Hello everyone,

I am currently writing my master thesis on memorial museums in architecture, and would like to create a new programmatic aspect to museums and a sensorial experience through architecture.

The topic of this discussion revolves around the idea of the future of museums. With the advance of technology and architecture, will the traditional way of building museums change? How do you imagine a visit in a futuristic museum based on a sensorial experience instead of the content its exposing? (Questions from an architectural point of view)

Best regards.

Relevant answer



May Elsamman

- Oct 29, 2020

Answer

I think it will be a Virtual museums. No real Antiquities. People will have the ability to see stories like short movies through museum. No story tellers anymore the technology will take place to embody characters and draw the full history of each antique and depth the stories by stimulate visitors senses by adding some memorial marks that will make this experiment unforgettable. I think there will be a great competitions to motivate people to visit museums to save different memories and thoughts through future generations.

[View](#)

- 0 Recommendations



Igor Kytka

- asked a question related to Architecture and Design

Transformation of (public) buildings in response to COVID-19

Question

26 answers

- Jun 25, 2020

I am looking for examples of (public) building adaptation or transformation in response to COVID-19. I am interested in both temporal and permanent change.

Example:

City's exhibition center in Berlin converted to a 500-bed temporary hospital in anticipation of a potential surge in coronavirus patients (<https://www.bloomberg.com/news/articles/2020-04-01/berlin-builds-500-bed-virus-hospital-it-hopes-won-t-be-needed>).

I look forward to your tips!

Relevant answer



Meghan McBride

- Jul 2, 2020

Answer

Have a look at Canadian building standards and Infection Prevention and Control (IPAC) standards- CSA Z8000 for Hospitals and <https://ipac-canada.org/>. Much of what is being proposed as new and innovative has already been implemented for 10-15 years due to the Canadian experience with SARS. Temporary facilities were limited as most Provinces have Pandemic plans and new buildings designed to suit. However we do have aging infrastructure so older facilities were definitely challenged leading to the creation of Field Hospitals. Many have not been needed.

In public spaces not related to Healthcare I am seeing them adopt concepts from Acute Care. This looks like HVAC solutions and focusing on surfaces that can be cleaned easily through simple methods. Increased cleaning frequencies and disinfecting. so chemical resistance and durability is important Although with proper cleaning disinfecting is only required in certain spaces and/or during an active outbreak. We Canadians like to plan for the worst so I see us making sure how spaces are able to handle an outbreak or creating outbreak zones so that essential services and work can be performed safely during these times.

[View](#)

• 4 Recommendations



Santiago Gamboa

- asked a question related to Architecture and Design

Concept of Biophilic Design

Question

9 answers

- Nov 26, 2019

Hi I want to know more about how are new cities implementing biophilic design to their buildings and how much this is growing. Also how important is the LEED certificate becoming for this implementation.

Relevant answer



Ashish Thakur

- May 25, 2020

Answer

Dear Santiago,

You can use my written text and site given below to find some detail regarding the LEED. Hope this is quite useful for your query.

Biophilic design is an innovative way of designing the places where we live, work, and learn. Biophilic design is a pathway for designing workspaces that care for the health, mental and physical well-being of their employees. We need nature in a deep and fundamental fashion, but we have often designed our cities and suburbs in ways that both degrade the environment and alienate us from nature. Biophilic design (design features that reconnect people with nature) is important; it could help reduce stress in the workplace. Biophilic designed buildings incorporate things like natural lighting and ventilation, natural landscape features and other elements for creating a more productive and healthy built environment for people.

LEED certification emergence to building design(new cities implementing)

LEED (1993) a third-party certification is one of the green building concepts leadership in Energy and Environmental Design (LEED) certification which support biophilic design in the workplace. This aspires to “create an interior environment that nurtures the human-nature connection. This is a new standard especially for low-

impact design, exemplified LEED, work with principles that contain the essence of natural objects without being exact copies, brings restorative environmental design, a means for achieving true and lasting sustainability. By ignoring the human need to connect with nature and its place, low-impact designs are aesthetically deficient. Now for the sustainability to maintain with low impact design, the requirement began with green roofs and has expanded to include LEED certification. First workplace design selection should be recognized with LEED Platinum, second workplace selection with LEED Silver certifications. The LEED certification rating system is established on a 100-based points scale; LEED Certified is 40-49 points, LEED Silver 50-59, LEED Gold 60-79, and LEED Platinum is 80 and higher. The LEED certification could be obtained for existing or new projects and, it is applicable for all the different commercial projects, schools, offices, hospitals, hotels etc. Studies have shown that LEED certified buildings Studies have shown that people report healthier outcomes in LEED-certified buildings, when compared to non-LEED certified. The rating system for LEED has encouraged building strategies that reduce the environmental impact as well as improve the Indoor Environmental Quality of the built environment.

LEED Platinum certifications may be quite useful and it is the rising movement towards evidence-based design strategies. Biophilia is inherent for human beings, and it provides a framework for us to build exceptional spaces enabling us to succeed and do our best possible work. ASID headquarters used LEED certificate to creating a premier workspace for its employees. Especially with the increased density of the urban environment, and most workplaces are located in the busy parts of the city, it becomes very important to add biophilic patterns o these workplace designs. Implementation of LEED for workplace selection could be much useful for city new workplace location.

Refer site for your convenient.

file:///C:/Users/3020/Cookies/Desktop/Downloads/2019_Alaqeel_Dalal_Thesis.pdf(good work, you can site it)

Handbook for emergence of LEED

<https://books.google.com.et/books?id=caS8DwAAQBAJ&pg=PA17&lpg=PA17&dq=LEED+certificate+becoming+for+Biophilic+Design+implementation.&source=bl&ots=MdG1teuN6X&sig=ACfU3U3hSpFRdD1Uii0RnKznY9imMhIQXQ&hl=en&sa=X&ved=2ahUKEwjSoqjdps7pAhVWAmMBHTZdA4oQ6AEwCXoECAgQAQ#v=onepage&q=LEED%20certificate%20becoming%20for%20Biophilic%20Design%20implementation.&f=false>

For emergence of LEED studies

<https://books.google.com.et/books?id=DsO3DwAAQBAJ&pg=PA77&lpg=PA77&dq=LEED+certificate+becoming+for+Biophilic+Design+implementation.&source=bl&ots=jg-nw-RkQS&sig=ACfU3U2LaZw8Ke5GSdPJUD-k0qdXdgCfcQ&hl=en&sa=X&ved=2ahUKEwjSoqjdps7pAhVWAmMBHTZdA4oQ6AEwB3oECAoQAQ#v=onepage&q=LEED%20certificate%20becoming%20for%20Biophilic%20Design%20implementation.&f=false>

Ashish

[View](#)

•0 Recommendations



Ola Harba

- asked a question related to Architecture and Design

How can nanomaterials affect hospital building?

Question

1 answer

- Jan 11, 2020

Has high performance concrete affected the construction of the radiology department in hospitals - for example, in its location?

The hospital's Proton Radiotherapy department would not have been possible without the development of dense concrete.

Relevant answer



Farrokhfar Valizadeh Harzand

- Apr 7, 2020

Answer

Hi dear Ola, In my opinion, it is possible to make a composite of materials such as boron 10, boron nitride 10 and 11, and lead metal, which are mixed with concrete during construction, or even flat sheets are made to prevent unwanted radiation.

[View](#)

•0 Recommendations



Yassmein H. Abdalla

- asked a question related to Architecture and Design

Humanitarian Architecture, seeking a Definition

Question

8 answers

- Mar 9, 2020

a small discussion I want to open on this platform,

What is **Humanitarian architecture**?

I am not seeking an “ *official definition*” , I am seeking points of views.

From your opinion as an architect and a researcher, when can we call architecture Humanitarian ?

Relevant answer



Yassmein H. Abdalla

- Mar 17, 2020

Answer

Moreover, to all the reasons that you mentioned -and all i agree with-, I think that it became more and more about self realization. It is the moving from the collective cultural thinking to the individual realization. It is the Architect's ego that controls the marked now. I think the main goal for most young architects in this era is to “Impress” specially with all available visualizing tools they have nowadays. You can see it more in our architectural students right now. I keep telling my students “ Design with people on mind”.

[View](#)

- 6 Recommendations



Ola Harba

- asked a question related to Architecture and Design

What are the main variables and potential values of the impact of building materials on the design of hospitals and health care centers?

Question

3 answers

- Jan 11, 2020

How did the smart materials affect the design of the facades and the interior design of hospitals such as smart glass, nanotechnology products and interactive materials, and did they affect the redistribution of hospital departments

Relevant answer



Usama Badawy

- Jan 23, 2020

Answer

It depends on how dangerous the materials are used for health and well-being.

[View](#)

- 0 Recommendations



Akram J. Al-Akkam

- asked a question related to Architecture and Design

What are the themes of "Post-Modern" Architecture?

Question

16 answers

- Oct 8, 2019

Post-Modern architecture has different themes. So I like to know these themes pls.

Relevant answer



Carlos Alberto Matos Trindade

- Dec 5, 2019

Answer

A few themes of "Postmodern Architecture", according to **Charles Jencks**: *Hybrid expression, Variable space with surprises, Eclectic, Semiotic articulation, Variable mixed aesthetic depending on context; expression of content and semantic appropriateness towards function, Pro-organic and applied ornament (structure/construction as ornament), Pro-representation, Pro-metaphor, Pro-historical reference, Pro-humour, Pro-symbolic, Collage/collision.*

To see: Charles Jencks , *Late-Modern Architecture* (London: Academy Editions, 1980); Charles Jencks (Ed.), *Post-Modern Classicism* (*Architectural Design* 5/6, 1980)

[View](#)

• 24 Recommendations



Ana Pau

- asked a question related to Architecture and Design

Opinions and point of views regarding Biophilic Design

Question

4 answers

- Nov 26, 2019

Hi! My name is Ana and I am a student who is studying biophilic design, I was wondering what is your opinion regarding biophilic design and LEED certificate, do you think it has a future, do you support it, advantages and disadvantages? Thank you! Have a great day

Relevant answer



Aryan Shahabian

- Nov 30, 2019

Answer

You should clarify your question. What do you mean by 'does it have a future'? Biophilic design is currently a term with broad meaning. A problem with such terms is that they could be interpreted widely. Everyone can read it differently. One thing that is obvious is biophilic design is very much context- and case-sensitive. One strategy or technique that may function properly in a specific project in a specific climate or site may terribly fail in another project, site, climate or time. It is a key to take into account deeply various layers and factors of local and global sustainability when prescribing a solution for a particular case. Green isn't necessarily sustainable. Search more on the difference between green and sustainable. These are fundamentals. Then you could extend principles and connect with standards and regulations such as LEED. That is a secondary issue.

[View](#)

• 15 Recommendations



Akram J. Al-Akkam

- asked a question related to Architecture and Design

What is the influence of 3D-printed technology on architecture/interior architecture?

Question

6 answers

- Oct 14, 2019

On January 21, 2013 architects began preparations for constructing the world's first 3D-printed building. I'd like to know the influences of that technology on architecture/interior architecture.

Relevant answer



Jaydip Datta

- Oct 14, 2019

Answer

Architecture - The art of sculpture & civil engineering ! . So developement 3D - printing technology helps to develope AUTOCADD greatly .

[View](#)

- 20 Recommendations



Mohammed Ghonim

- asked a question related to Architecture and Design

What are the existing knowledge gaps that require additional research in the field of architectural design?

Question

8 answers

- Sep 27, 2019

Thank you for your contributions.

Relevant answer



Mohammed Ghonim

- Oct 4, 2019

Answer

Dear [Volodomyr Durmanov](#)

Thank you for your contribution.

[View](#)

- 0 Recommendations



Akram J. Al-Akkam

- asked a question related to Architecture and Design

How can you increase the productivity of architectural students in design studio?

Question

9 answers

- Aug 7, 2019

Different architects consider design studio as a Lab for production of concepts and drawings. However the quality and quantity of the outcome is important goal for any architect including students. In addition to motivate the students psychologically, there are different methods to achieve this goal. Would you present your experience in such issues please?

Relevant answer



Rand H.M. Agha

- Aug 10, 2019

Answer

Using new methods of teaching and discussion

Providing good facilities level of architectural studio

For more information read this please

<http://iopscience.iop.org/article/10.1088/1755-1315/126/1/012006/pdf>

[View](#)

• 6 Recommendations



Mateusz Płoszaj-Mazurek

- asked a question related to Architecture and Design

Conference "Redefining Cities in View of Climatic Changes"

Question

6 answers

- Jul 11, 2019

*Invitation to participate in an international interdisciplinary conference - **Redefining Cities in View of Climatic Changes***

November 20-21st, 2019

Faculty of Architecture, Warsaw University of Technology

*55 Koszykowa Street, 00-659 **Warsaw, Poland***

The conference is aimed at presenting research results, technology and designs of the functional-spatial urban structure modifications and infrastructure of the city in view of climatic changes and their consequences. Conference is focused on the city and urban space transformation through implementation of modern and innovative architectural, technological, infrastructural and environmental solutions in urban investments.

The interdisciplinary actions undertaken foresee arrangement of expert panels and a platform for the research results' and experience's, exchange of various scientific disciplines.

Registration is open!

*Participants not presenting papers should be registered before **November 10th, 2019.***

For more info: [https://www.arch.pw.edu.pl/arch/Nauka/Konferencje/Redefining-Cities-in-View-of-Climate-Changes/\(language\)/eng-GB](https://www.arch.pw.edu.pl/arch/Nauka/Konferencje/Redefining-Cities-in-View-of-Climate-Changes/(language)/eng-GB)

REDEFINING CITIES IN VIEW OF CLIMATIC CHANGES

international interdisciplinary conference
November 20-21st, 2019

Faculty of Architecture, Warsaw University of Technology
55 Koszykowa Street, 00-659 Warsaw

<https://www.arch.pw.edu.pl/arch/Nauka/Konferencje/Redefining-Cities-in-View-of-Clim>



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SPAK
STOWARZYSZENIE POLSKICH ARCHITEKTÓW KRAJOBRAZU



[plakat
.jpg](#)

899.22 KB

Relevant answer



Harland Rivas Cooper

- Jul 15, 2019

Answer

Climate change is yet another driving force for cities to improve their infrastructure and living standards for urban dweller and business as a whole. Although the improvement of the urban space is important and necessary over time investing in innovative architecture, better technologies and environmental solutions it is equally essential for people and institutions to keep pace with all these changes. Because before climate change turned up on our horizon, poverty and poor development plans in cities were already making living in urban spaces difficult and for business to be not entirely successful, in some cases.

Fortunately, the awareness of "climate change effects and the risks of not acting upon what we know" has increased tremendously lately. This seems to be the right time to bring in new policies in local governments and involve different city actors to be part of the planning and implementation of the policies. So, the idea of 'City Climate Emergency Commission' seem quite appropriate and promising.

Therefore, it might be important to go further when we focus our attention in investment in infrastructure and make buildings, roads and bridges resilient to climate change but in the process involve the society to learn, change and adapt to the new environmental realities.

[View](#)

- 9 Recommendations



Sara Karama

- asked a question related to Architecture and Design

Do you think that sexual harassment can be stopped with the help of architecture and urban design?

Question

4 answers

- Apr 29, 2019

Sexual harassment and violence against women is a harsh crime that affects the whole society not just the individual. according to its significance, do you think design can help solving the problem?

Relevant answer



Mainak Ghosh

- May 7, 2019

Answer

Though I am not providing a definite answer of YES or NO to this question. But you may refer to two of my researches. These definitely indicate that sense of safety, interaction between people, intent of people has a bearing on architecture and built environment.

Please feel free to cite my papers.

Article [Environmental Perception: Image Based Analysis of People's I...](#)

Article [Comparative Study of Environmental Perception of Place: Food...](#)

[View](#)

- 8 Recommendations



Dariusz Prokopowicz

- asked a question related to Architecture and Design

When do certain architectural objects become an element of art?

Question

10 answers

- Jan 31, 2019

It happens that some buildings often designed in an innovative way, according to innovative concepts, which were later found to be crucial for the development of a specific era in the history of artistic development, are considered as a kind of architectural works of art. Architectural objects of this type are designed by globally known architects, they become the main objects of architecture, a kind of showpiece of a specific city, region of the country and quickly become tourist destination destinations and are covered with special protection as recognized as a significant contribution to the history of architecture and national heritage development of the country.

Do you agree with my interpretation of architectural works of art?

Please reply

Best wishes

- [DISCUSSION D.Prokopowicz When do certain architectural objects become an element of art.jpg](#)

211.05 KB

Relevant answer



David Pecháček

- Feb 9, 2019

Answer

Technically speaking all architectural objects are works of art. However, if we are looking for distinguished or prominent works of art, several criteria must be considered. Innovativeness is only one of them. Firstly, as [Bartek Felski](#) said, one of many significant agents is time. What is not considered as art today, could be considered as art in the future. Unfortunately, there are many examples of buildings, which were intentionally destroyed because they were not perceived as art at that time, but now would be protected as works of art. This is part of the reason why one should be very careful, when demolishing not only public and city-important buildings, but also personal villas, old factories etc.

Another important factor is relation of the object to its vicinity and to genius loci of the place. Sydney Opera House would not be so significant, if it had not been placed in that specific location. When dealing with the surrounding environment (nature, architecture, urban plane, etc.), building must achieve unity of place, material, form, function and building tradition and its overall gestalt must be clear and harmonized. If the object has these qualities, then it truly belongs to given place and can be considered as true work of art.

[View](#)

- 30 Recommendations



Yusuf Cihat Aydin

- asked a question related to Architecture and Design

Is merely focusing on the energy-efficiency enhancement of buildings enough to reduce building sector's increasing energy demand?

Question

3 answers

- Feb 3, 2019

Merely focusing on the energy-efficiency enhancement of buildings is not enough to reduce building sector's increasing energy demand. This paradox is conceptualised as **The paradox of Inefficiency of Increased Building Energy Efficiency**.

Compared to merely focusing on the energy-efficiency enhancement, increasing the number of energy-efficient buildings (EEBs) with a better marketability via enhancement of their aesthetic features is proposed as **a novel approach (aesthetics, energy efficiency, and marketing oriented)** to reduce building sector's energy demand and contribute the efforts to minimise the hazards of global warming in the article;

"Aydin, Yusuf Cihat, Parham A. Mirzaei, and Sanam Akhavannasab. **"On the relationship between building energy efficiency, aesthetic features and marketability: Toward a novel policy for energy demand reduction."** *Energy Policy* 128 (2019): 593-606" , Full text can be accessed until 20 March 2019 via: <https://authors.elsevier.com/c/1YU0v14YGgXiGz>.

This article contains valuable information about; (1) the current stage of EEBs' adoption, (2) market barriers of EEBs, (3) the role of aesthetic features on buildings' marketability for development of effective policies, (4) housing buyers' decision making process when they are buying a house, (5) the potential role of visual aesthetic on buildings' marketability, (6) the applicability of aesthetic enhancement of EEBs in practice, (7) building components that simultaneously affecting the buildings aesthetic, energy efficiency and marketability, (8) the most important building parameters in consumer decision-making process when they are buying a house, (9) the monetary added value of different building parameters, and (10) impact of window's parameters on market demand of residential buildings.

In this study, several pre-studies and a comprehensive email survey was conducted on residential sales employees from real-estate agencies (n = 289) across 26 UK cities.

I would pleased to discuss with my colleagues about this proposed novel paradox and approach, and hear their thoughts about the necessity of new approaches for reducing building sector's energy demand and contribute reaching the goals of Paris agreement.

Relevant answer



Martin Paul O'Connor

- Feb 3, 2019

Answer

The theoretically motivated response to your question is "of course not!". Why? Because of the so-called "rebound effect". Unless "efficiency" is accompanied with "sobriety", then the augmentation due to increased "lifestyle demands" for artificial comfort, gadgets, conspicuous consumption, prestige etc., say +20%, can easily outrun, on a periodic or exponential basis, the gains of "greater efficiency" (say 10%).

This is a well known consideration, which highlights that meaningful responses to sustainability concerns/challenges cannot be rooted primarily in "efficiency" terms (even if, at the level of "means to an end", different facets of efficiency are meaningful performance considerations).

- Martin O'Connor

View

- 15 Recommendations



Touria Bouazza

- asked a question related to Architecture and Design

Is any architect willing to help in completing a survey (5 min) on the design of healthcare projects?

Question

3 answers

- Jan 17, 2019

Your help in my PhD research study will be so much appreciated - entitled "Knowledge Management in a digital age: the use of performance information for evidence-based design of the buildings" at the University of Northumbria.

The aim of the research is to propose a knowledge management platform for design decision-making by using the information and capabilities of Building Information Modelling (BIM) in order to improve the current capabilities of Post Occupancy Evaluation "POE" and its impact on design decisions. The research focuses on health care buildings and the evaluation of their design. Your assistance in completing this questionnaire would be gratefully appreciated and your responses will be anonymous, treated confidentially, and used solely for research purposes.

Ps: The questionnaire is assigned to architects practicing in the UK, who have experience in the healthcare sector. Please click on this link to complete the survey (5-10 min):

<https://www.questionpro.com/t/AN907ZbdGm>

Many Thanks,

Kind Regards,

Touria

Relevant answer



Touria Bouazza

- Jan 21, 2019

Answer

Hi Bryan,

many thanks for your answer, I will definitely have a look at your references. However, what I am asking for is more architects participants to take up my survey if possible.

[View](#)

- 0 Recommendations



Khawla Kareem Kawther

- asked a question related to Architecture and Design

What is the Difference Between Shape and Form in architecture and urban design , shapes and forms are often confused with each other, why?

Question

27 answers

- Dec 11, 2018

Shape and form are the physical dimensions of two and three dimensional objects respectively.

Relevant answer



Ulrich Pont

- Dec 14, 2018

Answer

Any nomenclature has to be put in context. Depending where you look onto, shape is often used as a more generic term for any geometry, or also sometimes defining a specific, well-defined instance. Form comes often with a kind of iconographic background.

But as said before, the context is important.... Thus I do not believe there is a satisfactory answer to your question. I strongly oppose those who indicate that shape aöways is 2D and form is 3D - as this is some convention done by someone... but neither a distinguishing aspect nor any formalization of what-so-ever.

[View](#)

• 4 Recommendations



Oday Qusay Abdulqader

- asked a question related to Architecture and Design

[From your view, what is the essential interior space factore?](#)

Question

3 answers

- Oct 24, 2018

Each space have special characteristics, which should achieve human needs. The of the question is to identify the quality list of factors that designers and researchers considered

Relevant answer



Dhirgham Alobaydi

- Oct 31, 2018

Answer

[Oday Qusay Abdulqader](#) ,

You may look at these works.

- Panero, Julius, and Martin Zelnik. *Human dimension & interior space: a source book of design reference standards*. Watson-Guption, 1979.
- White, John. "The birth and rebirth of pictorial space." *Cambridge, MA* (1957).
- Ching, Francis DK, and Corky Binggeli. *Interior design illustrated*. John Wiley & Sons, 2017.

- Dodsworth, Simon, and Stephen Anderson. *The fundamentals of interior design*. Bloomsbury Publishing, 2015.

[View](#)

• 28 Recommendations



Antonio Lopes Correia

- asked a question related to Architecture and Design

Do you know cases of modular building architecture using recent technologies/processes?

Question

4 answers

- Oct 18, 2018

Question under the scope of a digital age review of modular construction.

Relevant answer



Dhirgham Alobaydi

- Oct 19, 2018

Answer

[Antonio Lopes Correia](#)

Here you go

- Lawson, R. Mark, Ray G. Ogden, and Rory Bergin. "Application of modular construction in high-rise buildings." *Journal of architectural engineering* 18, no. 2 (2011): 148-154.

- Lawson, Mark, Ray Ogden, and Chris Goodier. *Design in modular construction*. CRC Press, 2014.

- Kamali, Mohammad, and Kasun Hewage. "Life cycle performance of modular buildings: A critical review." *Renewable and Sustainable Energy Reviews* 62 (2016): 1171-1183.

[View](#)

• 30 Recommendations



Ehsan Rahimianzarif

- asked a question related to Architecture and Design

Does your university reward for publishing ISI article?

Question

11 answers

- Mar 15, 2018

Please declare the name of your university and the amount of reward.

Relevant answer



Abbas Biglar

- Mar 21, 2018

Answer

yes....of course....why not?!

[View](#)

- 52 Recommendations



Tatiana Tamayo Cardona

- asked a question related to Architecture and Design

I am interested in lectures about urban furniture, i want to start an investigation in order to ergonomic issues ¿can someone help me?

Question

7 answers

- Nov 29, 2017

Recomendations please

Relevant answer



Tomas Neu

- Dec 5, 2017

Answer

Tatiana, La cartilla del Espacio publico. Y en La Salle en la Facultad de Ciencias del habitat Hdeberias conversar sobre le tema de la Accesibilidad Universal con Gilda Toro que seguro te puede ofrecer informacion pertinente para que el amobalamiennto urbano sea accesible a todos; incluye el esapcio público. gtoro@unisalle.edu.co de la Alcaldia de Bogota de Lorenzo Castro y la actual; El IDU tiene una muy buena

[View](#)

- 5 Recommendations



Konstantin Polev

- asked a question related to Architecture and Design

UV-resistant floors for Cell Culture Room?

Question

2 answers

- Feb 4, 2016

In our Cell Culture Room we have UV lamps installed on the ceiling. Floor there is made of some kind of resin. Turns out that our floor is being easily degraded with UV light - it changed color, leaves yellow residue when being wiped with ethanol and smells funny after being exposed to UV.

We decided not too use UV until we will find a proper material to cover/replace the floor.

Could anyone please recommend a material that we should use?

Relevant answer



Thomson Patrick Joseph

- Sep 27, 2017

Answer

Poly urethane floor coating, it is better than epoxy coating

[View](#)

• 0 Recommendations



Chloe Hendricks

- asked a question related to Architecture and Design

How do living things decide their environment?

Question

21 answers

- Jan 4, 2017

As part of my research in the history of architecture, built environment, and human nature of health (including survival), I came to the thought that instead of reinventing the wheel (residential housing practices, construction, strategies etc.) what if we took away housing all together, how would we build it?

I have asked a similar question to that specification before but I am now asking from a different approach. If we modeled our housing from animals, it would most likely be characteristic of the ingenious strategies of the animals in that region or using them as a direct resource (beginnings of farming and agricultural practices).

It should also be considered that although we build based on what we know, we also have preferences and different *personal* hierarchy of needs within our built environment for survival. We also manipulate and experiment with matter to improve different aspects of our lives (which eventually leads to the industrial revolution, consumerism, modern technology, etc.).

Thus, the thought is, if I can put aside the personal and unique qualities of humans and their form of expression through material means, what then is left for survival? Can Maslow's hierarchy of needs be redefined into the needs of life in the built environment (as a wholesome and sustainable ecosystem between man and nature)?

The question can also be thought of in the following thought. If we were to become "animals" again, how would we define our community, neighborhood, city, region, territory, etc. What are the connected systems between other communities? For example, a bird will flock with its own kind but may select various trees or a particular tree. Assuming that animals are simple in nature and have less understanding of individuality, what then is the common factor between said different trees or location of same tree? The nest formation is also unique to the bird. What then is similar between one bird family from another with in the same species or not. Do they face a particular direction? Orientate themselves from other neighbors rather than the sun?

In order to live, birds also have a way to fight parasites and disease, or co-exist with other living things. They also need food, water, and a mate for offspring and survival. They also would pick healthy waters which feed healthy plants which then feeds their source of health resources.

However, one aspect which doesn't seem to be measurable is Maslow's selection of intimacy, rather than just physical but also love as an emotion as studied with children. Is there a "spiritual" and/or "emotional" similarity between living things in their set living circumstances for survival and/or life and existence.

Even in biblical understandings, self expression is a luxury rather than a necessity. The specific laws, commandments, and lifestyles are generally simplified into the basic laws that we understand as a human species to be the basic morals of being who we are. Riches, wealth, and happiness were blessed upon those who were righteous until they abused certain laws and it was taken away through famine, war, etc. The commandments given are to allow us to be spiritually and physically/temporally free, happy, and prosperous.

It is possibly that I am trying to reinvent an ancient wheel of living. A way of living harmonious and comparable to how nature needs another life form.

I am looking for resources, discussions, and answers of anything discussed or related.

Relevant answer



Saeed Naif Turki Al Rashid

- Jan 5, 2017

Answer

Dear colleague

Living things respond to their environment by adapting to it. Organisms react to different things in their environment, such as light. Other environmental factors include basic things such as heat, food, odors and sound. When these environmental factors affect or change an organism, they are called stimuli. As the organisms learn to adapt to the stimuli around them, they become better suited for living in the specific environment. For example, camels have long, thick eyelashes. The eyelashes work to protect their eyes from sand since they live in sandy environmental [conditions](#). Living things also learn how to obtain energy from the environment, and this energy helps them to reproduce. The ability to reproduce is a characteristic of all living things in the world.

Regards

[View](#)

- 24 Recommendations



Vladimir Ladinski

- asked a question related to Architecture and Design

What are the six most important aspects of building design that promote the building adaptability in future?

Question

15 answers

- Jul 9, 2016

I would appreciate if you can kindly reply based on your personal research or practical experience in the area.

Thanks

Relevant answer



Sam Watkins

- Jul 13, 2016

Answer

My answers are similar to Mr. Schill's. I'm thinking of modularity not in terms of pre-fabrication or of a uniform size, but as a measure of each frame, bay or unit being independently functional or self-supporting. The first three tend to determine the viability of a proposed adaptation and the others influence efficiency/cost:

1. Floor to floor height
2. Modularity - floor structure (i.e. no pre/post tensioning)
3. Modularity - columns and beams (i.e. no flat slabs)
4. Modularity - facade system
5. Regularity - column and beam spacing
6. Access/Loose Fit - are the MEP and other support spaces packed full, or laid out with some maneuvering room, can each space be accessed by the size and type of equipment needed (cranes, stages, etc.)?

MEP systems themselves are harder to characterize. Spare breakers or empty pads & conduits are helpful for day-to-day facilities maintenance, upgrades and tenant or user changes. In my experience, major adaptations tend to come with significant changes to or replacement of those systems. Having a spot to add a cooling tower

cell may not help much when all of them are being replaced and you need to add two generators and their switchgear because the new use is 24/7.

[View](#)

• 8 Recommendations



Ruoshu Lian

- asked a question related to Architecture and Design

How does Russian immigration architecture help shape local architecture in the city of Harbin, China?

Question

2 answers

- Dec 24, 2014

In particular I'm looking at the impacts that Russian architecture leave on harbin contemporary architecture and culture as well. And I am reading the book of "difting" architecture and migrancy, any other books or theories discuss about the issues?

Relevant answer



Andrey Korenevskiy

- Jul 2, 2016

Answer

There are a lot of good books about Russian architecture of the end of 19th and the beginning of 20th centuries in Russian. In English – see:

William C. Brumfield. The Origins of Modernism in Russian Architecture. University of California Press, 1991; Dmitry Shvidkovsky. Russian Architecture and the West. Yale University Press, 2007.

If I am not mistaken, A.J. Toynbee wrote about Russian heritage in Harbin: A.J. Toynbee. A Journey to China, or the Things which Are Seen. London, 1931

[View](#)

• 0 Recommendations



Dileesh E D

- asked a question related to Architecture and Design

Any body have experience in using opensource plat form FABSCALAR?

Question

1 answer

- Mar 7, 2016

I am planning to implement DCS for multi core architectures .. which would be the efficient platform to work with

Relevant answer



Tapas Bhattacharyya

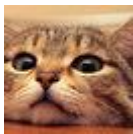
- May 30, 2016

Answer

what is FABSCALAR please elaborate!

[View](#)

- 0 Recommendations



Xinyi Shen

- asked a question related to Architecture and Design

Can anyone give me some information about the application of fluid structure in architecture?

Question

1 answer

- Apr 25, 2016

I would like to know information about **fluid structure in architecture**, also the **using of curves in architecture**.

Relevant answer



Huihuang Xia

- Apr 26, 2016

Answer

Dear shen,

A video in TED named:"Why great architecture should tell a story" introduced some new advances in modern architecture, it is really good, and I guess it is helpful to you.Please refer to the following link:

http://www.ted.com/talks/ole_scheeren_why_great_architecture_should_tell_a_story

[View](#)

- 0 Recommendations



Sonia Villanueva

- asked a question related to Architecture and Design

What are the methods of teaching architecture design in the early stages?

Question

26 answers

- Apr 24, 2016

I'm interested in researching methods of architectural education in basic design workshops and the question is whether these methods are the same or changed according to new technologies and new students today

Relevant answer



Bryan R Lawson

- Apr 25, 2016

Answer

This is a huge question which I guess I try to answer only in part by writing whole books so it would be hard to summarise here. However one point in response to Lilliana is worth following up.

There is no doubt that designers including architects tend to work in a solution focussed manner. There is no theory as in structural engineering that gets you from problem to answer. So we use a great deal of knowledge that is episodic rather than semantic, or experiential rather than theoretical. We often use what we call (not a good term) precedent and the gathering of this is so important as Lilliana says. To do this today students are tempted to use the digital camera, but this requires no mental or cognitive processing to pass from reality to image. A sketch does involve the brain and hand co-ordination that means cerebral experience is developed.

Even more importantly this also helps to practice sketching and drawing technique. As Lilliana suggests we must also delay using CAD as today many students come to university to learn architecture having not studied drawing formally but are very conversant with computers. SO the digital camera and teh computer can delay the learning of drawing and this is fatal in its effects on learning to design.

You can of course find much more detailed discussions of all these ideas and hundreds more in my latest book Design Expertise written with Kees Dorst and listed on my site here. I am currently working on a new book as a sequel to How Designers Think that is primarily directed at the learning student and is intended to be with them from the beginning learning to design. Previous books were more directed at those researching design. All detailed here and having many references that might help answer your huge question.

[View](#)

- 18 Recommendations



Zeinab Javidi

- asked a question related to Architecture and Design

[How can I find a good dataset for Object-Oriented software architecture design?](#)

Question

1 answer

- Mar 7, 2016

How can I find a good dataset for Object-Oriented software architecture design?

Relevant answer



Usama Badawy

- Mar 26, 2016

Answer

By my link you ,can find some of your questioner.

Websites

http://www.cpas-egypt.com/AR/Usama_Badawy_ar.html

http://www.researchgate.net/profile/DrUsama_Badawy/

View

- 0 Recommendations



Praveen Kitti

- asked a question related to Architecture and Design

How are slots made ? Can you tell me in detail?

Question

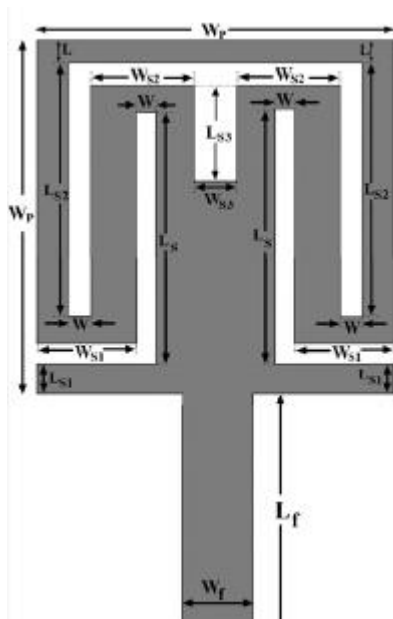
1 answer

- Feb 13, 2016

for example in the below image two L - shaped slots and E - slots are made,

How to determine the position of the slot.....like why that place only why not other position another shape

Slot lengths, width?



- [Untitled.jpg](#)

9.53 KB

Relevant answer



Malcolm White

- Mar 21, 2016

Answer

Other positions and other shapes will (probably) work. It is possible that another shape in a slightly different position will give the same performance, but this is what the engineer came up with first. Parameters like slot width and length and x and y position are usually used in optimisation programs in electromagnetic simulation packages (even more so if the design is by hand and uses look-up tables), so for that reason you often end up with rectangular slots and copper, unless, for instance, a genetic algorithm is used to search for a solution, in which case you may end up with a shape similar to the one shown but without right angles and with bent bits that actually do very little. It is easier and quicker to find an answer by optimisation if the range of shapes you are going to search is limited in some way, provided that it is possible at all within the range you allow. This design may also have been developed in stages and by experience, using simple easily understood circuit elements to improve the previous performance.

[View](#)

• 0 Recommendations



Tomi Ekundayo

- asked a question related to Architecture and Design

[How do ventilated facade affect a building.](#)

Question

6 answers

- Mar 3, 2016

i need to know both the positive and negative effect a ventilated facade

Relevant answer



Niels Peter Kloch

- Mar 7, 2016

Answer

Hello Phebe

The reason for ventilating the façade will be different for different climate zones.

In the Scandinavian, and probably also the British climate, the relatively warm and humid indoor climate in the heating season, results in humidity diffusing into the façade, as the VCL will never be 100% tight. Thus the façade is ventilated to evacuate any moisture in the façade.

I think the previous answers covers buildings in a hot climate, where the ventilation will have other functions.

[View](#)

- 10 Recommendations



Michiel Smits

- asked a question related to Architecture and Design

Is there a existing available method/framework/model to evaluate the level of user participation in architectural design/projects?

Question

6 answers

- Dec 18, 2015

Searching for a method/framework/model that evaluates how, where and much the user participates in the total process of a project (although from architectural perspective, not only focused on design)

Relevant answer



Jekaterina Lavrinec

- Feb 16, 2016

Answer

A ladder of participation might be helpful as a basis for evaluation, as there is a number of so-called participatory methods in architectural design that in fact aim just to inform the participants about upcoming changes in interactive way.

Here is an example of adjusting the ladder for mapping the participatory projects in cultural heritage: http://themuseumofthefuture.com/tmotf_live_12nu/wp-content/uploads/Participation-framework-500x303.png

[View](#)

- 4 Recommendations



Md Mustiafiz Al Mamun

- asked a question related to Architecture and Design

How to analyse 'Factors' Affecting Land Use Change

Question

10 answers

- Feb 4, 2016

in land-use/cover changes, some factors are involved or influenced to change its surround land use pattern. in research, how can we analysis this factors and how we can find out the way to collect that data and so on? atually in my question is "How to analyse 'Factors' Affecting Land Use Change" after collected data of questionnaire survey and interviews from different stakeholders?

Relevant answer



Robert G. Healy

- Feb 7, 2016

Answer

Just a word on how to use land use transition matrix. I cited it, firstly, as a simple key word into relevant literature. But it has some valuable content of its own. Land doesn't just change use--it changes from one use to another. Urban land is very unlikely to change into forest land because of both land values and transition costs. Cropland can go in and out from grazing with little cost from year to year. That's one reason why Conservation Reserve Program in US is so popular with farmers. Land can go from crops to trees (either forest or plantation) but return will not be realized for 10-40 years. It is much less likely to go back. Naveen wisely brings up climate

change. It can affect profitability of all land uses, but the first thing to look for is whether it pushes any single use below the margin of profitability. It is also worth looking at regions where lots of land is at one or more margins. There is little chance that downtown London will go into grazing nor that corn/soybean land in central Illinois will become forest. I looked at a region at the margin in my 1985 book, **COMPETITION FOR LAND IN THE AMERICAN SOUTH**. It has lots of hypotheses on why land changes use, but also many thoughts on the important question of **WHERE**.

[View](#)

• 8 Recommendations



Lena Bürger

- asked a question related to Architecture and Design

Biomimicry in Building Services - case studies?

Question

2 answers

- Feb 3, 2016

I am looking for case studies where biomimicry was applied in the building services strategy (consciously or not)?

I am conducting research for my dissertation and require buildings which have (un)successfully applied biomimicry and the effects this has on the overall energy consumption, carbon emissions etc.

Thanks for any information!

Relevant answer



David Holmes

- Feb 4, 2016

Answer

Lena, my speciality is lighting. May I suggest that you look for "Human Centric Lighting" with special emphasis on biorhythm analysis. A great deal of work has been done on this subject and papers should be easy to find. A good place to start would be "Human Factors in Lighting" by Dr Peter Boyce.

[View](#)

• 0 Recommendations



Behzad Behzadnia

- asked a question related to Architecture and Design

How environmental design affect attitudes and motives for physical activity?

Question

6 answers

- Jan 17, 2016

Previously examined the effect of social-contextual environments on physical activity motives, but how designing environmental in terms of architecture affect attitudes and motives for physical activity. For instance, some people would prefer to intend in environments for their physical activities which they enjoying because of its beautiful interior architecture and plan.

I would greatly appreciate if anyone kindly shares with me any plan, research and experience and guides.

Relevant answer



Paul Wartena

- Jan 25, 2016

Answer

If you exercise in a beautiful environment, it stimulates you to continue to do exercises. If you don't like the environment you are inclined to stop: this is the case with ugly dark indoor halls with no windows. Most people in the moderate climate zones like the sun and walking or doing physical exercise outside, in the sun and in a beautiful landscape is a most rewarding experience. So variables at stake are: light, sun, that means intensity of the colors, beauty of the landscape if outdoor or indoor: beauty of the architectural surroundings. But besides these variables there is another one: if one feels at ease in these surroundings, so what are the associations with this place, what is the vibe, how do you relate to other people in this environment: are they potentially friends or enemies ?

If you want to do research on this subject, it is not enough to just ask some questions. That is because what people think is not always how they feel. So you should also look to what places are the most visited and what places the least and for what reasons. Another way is to let respondents score at photo's of some places they do not know.

[View](#)

• 5 Recommendations



Josua Tapia

- asked a question related to Architecture and Design

How can creativity as a topic be under analysis to be interpreted along the design process in architecture?

Question

14 answers

- Oct 8, 2015

¿whats mental's tools can improve our creativity in de desing process in architecture.?

¿how the creativity work in architecture?

¿Are There specific studies on creativity in architecture?

Relevant answer



Bryan R Lawson

- Oct 16, 2015

Answer

Henri is quite right. In fact as you look at the design research field literature you will find that early work in the mid 20th century tended to be prescriptive. It was more accurately called design methods and much of it went largely unheeded by practitioners. Gradually we investigated more and began to understand what designers actually did, and now it is quite an empirical field. So although early on you will find many references to creative thinking they tended to be sometimes gimmicky techniques and might not be so useful in your enquiry

[View](#)

• 4 Recommendations



Andrea De Tommasi

- asked a question related to Architecture and Design

Does anyone know relevant study cases of "preverdissement" in the world context, with a special attention to the French scenario?

Question

3 answers

- May 18, 2014

I'm looking for study cases of "preverdissement" techniques applied in the world context and especially in France, for comparing them with similar Italian cases.

Relevant answer



Andrea De Tommasi

- Sep 21, 2015

Answer

Many Thanks,

it is an interesting reference to a case study regarding the preverdissement.

Best Regards.

[View](#)

- 0 Recommendations



B Shashi Bhooshan

- asked a question related to Architecture and Design

Are there many research works in haptic architecture?

Question

8 answers

- Jul 27, 2015

Are there been any work on Hapticity related to perception of environment and architecture? Is it possible to device a haptic code and a haptic aesthetics?

Relevant answer



Jorge Echavarría

- Sep 16, 2015

Answer

There is some reference to haptic perception of build spaces in Hidden Dimesion by Edward T. Hall

[View](#)

- 0 Recommendations



Sajjad Nazidizaji

- asked a question related to Architecture and Design

Do you know any research about criteria for international architectural prizes such as Pritzker?

Question

4 answers

- Apr 30, 2015

Also other prizes , I am looking for researches and not just criteria.Evaluation and assessment methods that they have or new proposed methods.

Thanks

Relevant answer



Dr. Ravindran S.

- May 1, 2015

Answer

Pritzker Architecture Prize

Nomination Process

The prize is awarded irrespective of nationality, race, creed, or ideology. Nominations are accepted internationally from persons from diverse fields who have a knowledge of and interest in advancing great architecture.

The Executive Director actively solicits nominations from past laureates, architects, academics, critics, politicians, professionals involved in cultural endeavors, etc. and with expertise and interest in the field of architecture.

Additionally, any licensed architect may submit a nomination to the Executive Director for consideration by the jury for the Pritzker Architecture Prize. Nominations are accepted through November 1 of any given year. It is sufficient to send an e-mail to the Executive Director with the nominee's name and contact information. Nominations that do not result in the award are automatically carried over to the following year. The Jury normally undertakes deliberations early in the calendar year and the winner is announced in the spring.

[View](#)

• 2 Recommendations



Jonathan Fox

- asked a question related to Architecture and Design

Are there any studies on the relationship between construction and design including common issues?

Question

4 answers

- Mar 24, 2015

I am working on a final year dissertation on 'The breakdown in relationship between design and construction'

Any relevant articles to do with the relationship between both design and construction parties would be helpful

Relevant answer



Bryan R Lawson

- Mar 31, 2015

Answer

Jonathan. You could look at y paper jointly with Simon pilling on this. Look for The Cost and Value of Design on my page here I think you can download it. It deals with

a study of architects and their clients, mostly developers, construction firms and huge serial clients.

[View](#)

• 5 Recommendations



Sajjad Nazidizaji

- asked a question related to Architecture and Design

What are the overlaps of topics like accessibility, way finding and integration (from the space syntax theory point of view) in architectural design?

Question

6 answers

- Mar 14, 2015

How the techniques of accessibility and way finding and integration can be overlapped?

For example when the integration of one space in a building is high, may we say that the space is high accessible ?

http://en.wikipedia.org/wiki/Space_syntax

Relevant answer



Chaham Alalouch

- Mar 19, 2015

Answer

Space syntax could be used to predict behavior and/or perception related to the phenomena under questions.

You need first however to establish the link between one or maybe more space syntax measures (such as integration) and a measurable phenomenon, for example, movement path. This can be done via empirical work or you could chose to relay on the literature.

Most of the work done on space syntax is dealing with behavior though. an example of where space syntax was used to investigate perception can be found in these links:

<http://www.emeraldinsight.com/doi/full/10.1108/02632770710772450>

<http://www.emeraldinsight.com/doi/full/10.1108/02632770910933125>

Once the association is established, space syntax might be used to assess the potential of different design proposals in achieving the desired level of the phenomenon that the research is concerned with.

A crucial point worth noting here is whether the relationship found is merely an association or is a type of causality as Prof. Bryan noted in his answer.

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- 10 Recommendations



Sajjad Nazidizaji

- asked a question related to Architecture and Design

Do you know some strategies for solving trade-off in architectural design ?

Question

4 answers

- Mar 14, 2015

I am looking for some strategies for dealing with architectural design trade-off?

Do you know any strategy in research or applications in companies?

<http://en.wikipedia.org/wiki/Trade-off>

Relevant answer



Bryan R Lawson

- Mar 15, 2015

Answer

Sajjad

I assume you mean trading off performance along one dimension against another. If the real intractable problem here is that you cannot find a common metric for all the issues in design. These issues are dealt with extensively in my book. How Designers Think

[View](#)

- 6 Recommendations



Farzana Farah

- asked a question related to Architecture and Design

Why daylight has been rigorously pursued as one of the physical aspects in creating a healing environment?

Question

4 answers

- Jan 24, 2015

Hospital is such an environment which starts with stress, worries, physical pain etc and sometimes culminating death. Every moment passes by tension, waiting, silence and many more. Has the daylight been used for those aspects or only to patients?

Relevant answer



Shian-Loong Bernard Lew

- Mar 10, 2015

Answer

Very interesting question! I once had a student from another country complain to me how hard it was to fall asleep. And both of us come from countries with similar climates AND we both live in cities. Through a process of elimination I stumbled upon one exception- one of us lives in a country where the business hours extends into the wee hours of the morning. That means that artificial lighting has a greater "polluting effect" in that country, leading to sleeplessness and other related health problems. Perhaps that is why we should not interfere with the daylight cycle to create optimal healing environments? Since otherwise our circadian clocks will be in a mess.

<http://www.ncbi.nlm.nih.gov/pubmed/23910656>

[View](#)

- 4 Recommendations



Farzana Farah

- asked a question related to Architecture and Design

What factors lead to changes in IEQ of a building?

Question

4 answers

- Jan 24, 2015

Daylight, IEQ, patient's well-being interrelate each other which are triggered by some external factors. This research includes some generic or special (hospital) factors concept which actually lead to these changes.

Relevant answer



Tayyab Ikram Shah

- Feb 9, 2015

Answer

Hi Farzana, Here's a article that has some useful information related to your question:

<http://www.iaqscience.lbl.gov/benefits-summary.html>

View

- 3 Recommendations



Ruoshu Lian

- asked a question related to Architecture and Design

What are they key aspects of the influence immigration on the architecture of new country?

Question

5 answers

- Jan 23, 2015

Relating to architecture, what should be concerned? Architectural style, elements, details?

Relevant answer



Sajjad Nazidizaji

- Feb 2, 2015

Answer

Dear Ruoshu

I think for answering this question , we need to know what kind of roles have immigrants architects in new country , beside the designs , legislation and construction methods effects on this issue , if we have a statistic about percent of architects that work in design fields, detail design or legislation we can answer better to this question , or

as case study we may consider famous architects that migrate to other countries , in this case the number of years that they have worked in their home country is a key issue, however we have example of Zaha Hadid who is originally from Iraq but worked so many years in England and the styles of her is not so related with the architecture of her home country

[View](#)

- 5 Recommendations



Justin Pisani

- asked a question related to Architecture and Design

Should there be a stronger partnership between architectural educators and practitioners?

Question

7 answers

- Jan 22, 2015

A partnership that exposes students of architecture to a 'real world' project with 'real people'.

Relevant answer



Craig Deed

- Jan 23, 2015

Answer

The logical answer is 'yes'. But practitioners are concerned with the practical and resolution of problems with functional or technical responses. The academic is concerned with the abstract and the theoretical. They are both different ways of looking at the fundamental issue of architectural education. So, while the answer is perhaps yes, it is also worth considering how academic and practitioner knowledge is different and in many ways incompatible but also necessarily linked through questions of purpose and reasoning.

[View](#)

• 6 Recommendations



Justin Pisani

- asked a question related to Architecture and Design

Is Australia's architectural curriculum parallel to the expectations of today's professional practice?

Question

1 answer

- Jan 22, 2015

This is a refined research question that I would like to explore for my thesis. The question is specifically referring to a student's level of skills (communication, etc.) against the employers expectations of when entering the workforce

Relevant answer



Bryan R Lawson

- Jan 23, 2015

Answer

This can be taken together with. Your other question. This is a long standing conundrum. Many people have studied and argued about this and there is a big literature. Be careful to distinguish between education and training. Some practitioners may see what is done in universities as a production line creating skilled employees. Others may thinking it is not a training but an education preparing them for lifelong abilities. To understand this imagine turning the clock back only a couple of decades before cad came into practice. Now imagine if you can what changes will taken place over the next twenty years.

another issue here is that so e skills are simply better learns in practice and other in the university. You could try to analyse them and see if you can draw up lists. Try looking at the book design expertise that I wrote a few years ago with Kees Dorst to help map out the skills involved in design.

[View](#)

• 8 Recommendations



Farzana Farah

- asked a question related to Architecture and Design

Which area does natural lighting important in a hospital?

Question

4 answers

- Jan 21, 2015

Area can be a more specific like as patient's ward, corridors, office area, lobby etc.

Relevant answer



Bryan R Lawson

- Jan 23, 2015

Answer

There is plenty of evidence that a connection to nature is beneficial and it's effects on patients recovery rates are well known. More detailed answers can be found in my publications posted here. Be careful how you try to answer the question, because if you provide natural lighting, there is a high probability that you also provide views out which are certainly important. These views may also be of nature which is also shown to be important. If you specifically and only wanted to know about natural light as an abstract form of illumination you may find it difficult to isolate as a variable in field studies. Laboratory studies are unlikely to yield knowledge about real patients etc. so you have some experimental design problems here.

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• 4 Recommendations



Lona Do

- asked a question related to Architecture and Design

Have hospitals been catalysts in the development of modern medicine? Or have they simply been passive reflections of medical innovation?

Question

33 answers

- Jan 1, 2015

Considered as a logical next step from healthy house, have hospitals been catalysts in the development of modern medicine? Or have they, as many architectural and medical historians had assumed, simply been passive reflections of medical innovation? (Adams, 2008)

Relevant answer



Peter Blundell Jones

- Jan 7, 2015

Answer

Buildings are never neutral: they define relationships and organise our lives. In numerous ways hospitals reflect the categories of society, by showing age and gender differentiation, for example, and by articulating wards in accordance with specialisms and diseases. Miasma theory which designated 'bad air' as a cause of disease resulted in great emphasis on cross-ventilation, because it was only in the 1870s that Pasteur established the existence of microbes, and before that what one could smell was self-evidently dangerous. However, in modern hospitals air-conditioning has taken over, and whole buildings are planned for ease of servicing, to the detriment of way-finding. Until the mid 19th century the chapel had a hierarchically dominant role because God was still in the picture and many people died. Today most people die in hospital but we don't acknowledge it because is it supposed to be a healing place. In the 19th century operating theatres were just that, with lots of dirty people in ranks of seats looking on, now it is one of the most tightly defined enclaves of modern life with stringent barriers and ritual cleansing. In the 1920s tuberculosis was a major killer and without antibiotics was difficult to cure, but UV light in sunlight killed the bacillus, so patients were exposed to the open air in buildings like Aalto's Paimio, and this idea was reflected in many other buildings of the period, such as open-air schools. For a good history of the building type see Thompson and Goldin 1975, and on miasma theory and birth Ann-Marie Adams. There will be a chapter in hospitals in my forthcoming book Architecture and Ritual.

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• 44 Recommendations



Renato Capozzi

- asked a question related to Architecture and Design

What is the relationship between form, space and construction in hypostyle halls?

Question

6 answers

- Nov 25, 2014

What is the relationship between the roof and columns? What is the relationship between the fence and the inner space?

Relevant answer



Renato Capozzi

- Jan 7, 2015

Answer

My approach is more on the formal genesis and construction and not so much on the symbolic meaning. Anyway thanks a lot

[View](#)

• 5 Recommendations



Lona Do

- asked a question related to Architecture and Design

The most important roles of atrium in public building? Architectural impressions vs people's experiences, which factors are prioritised when designing?

Question

17 answers

- Jan 1, 2015

Atriums are considered the heart of public buildings (hospitals/ shopping centres/ educational centres/ office buildings etc.). Not only the main spaces where social activities happen, people gather/socialise but also connect to the nature (sun/ green spaces) to meliorate the indoor environment/ levels of comfort of the buildings. We assess how the atrium by providing important, but difficult-to-measure functions such as comfort, socialisation, interface, way finding, contact with nature (for instance: the natural lighting performance of roof skylight systems in buildings with atriums) and diurnal rhythms (Adams et al., 2009; Yildirim et al., 2012).

Relevant answer



Negin Minaei

- Jan 4, 2015

Answer

The answers by Tim and Evert are right. You know that Richard Meier was believed to be the first person in the modern era who brought this concept to the architectural design. He mainly aimed for having day light while providing a vertical open space providing access within a building which gives you views to the interior space. Maybe not a bad idea to have a look at his designs in his books and projects.

http://www.richardmeier.com/?page_id=156

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- 22 Recommendations



Kau Chek Lee

- asked a question related to Architecture and Design

How does a transforming building envelope affect building indoor quality?

Question

7 answers

- Dec 8, 2014

How would an ever-changing building facade which transforms its appearance over the day and night impact the building indoor environment?

Relevant answer



Pedro Santiago

- Dec 15, 2014

Answer

I absolutely agree with Mario and his perspective on the building envelope. There's a good book on this subject with the title "Intelligent Skins" by Michael Wigginton and Jude Harris. Hope it helps.

[View](#)

- 7 Recommendations



Rolando Arturo Cubillos González

- asked a question related to Architecture and Design

How do you consider resilient factor of buildings? Can you relocate that concept to buildings design?

Question

2 answers

- Jul 14, 2014

I am recently conducting a research about the resilient factor of buildings. Can you include the resilient concept into the buildings design? I would like to know if exist any research about resilient factor included in buildings design.

Relevant answer



Benjamin Casper

- Sep 1, 2014

Answer

Dear Rolando,

I would roughly say: yes you can locate it to buildings also. Important to know is resilience to what? To disaster, societal changes, functional adaptability, mobility...?

Also very important to focus on the system in detail: Resilience of what? All buildings? Old buildings? office buildings of the 70's? residential buildings? slum dwellings? The definition of your system to be analyzed will determine the relevant questions for your work. Please note the discussion on specified and general resilience in the first link attached.

I found it helpful to look at the discussion in the urban morphology considering resilience as well (2nd link).

For a detailed analysis of the resilience concept attached to building design, I think it would be useful to look back at the research of Anne Vernez-Moudon: "Built for change", 1986, MIT Press, where she uses the term resilience in her research about the typomorphological changes in a quarter in SF.

It might also be helpful to use metaphors from the resilience-discussion and adapt them to the perception of an architect. For this a look at the work of Holling, Gunderson, Carpenter, Cumming and Walker more close would be essential and helpful. They all use vocabulary which is established in architecture as well, like adaptability, variability, flexibility, modularity and so on.

If you can access ebrary, please look up the third link for the edited book of Pickett, Cadenasso and McGrath about Resilience in Ecology and Urban Design

<http://www.ecologyandsociety.org/vol15/iss4/>

<http://kth.diva-portal.org/smash/record.jsf?pid=diva2:469884>

<http://site.ebrary.com/lib/alltitles/docDetail.action?docID=10649431>

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• 6 Recommendations



Megha Joshi

- asked a question related to Architecture and Design

What is the relationship between a book and a reader and how does that affect architectural design of any reading space?

Question

6 answers

- Aug 9, 2014

In any reading space, particularly libraries, there is kind of relation ship between reader, book and natural light. Reader needs natural light while reading but books doesn't in its storage place.

So how would you describe personal relationship between all of it and how does it help in shaping up the design of library design?

Relevant answer



Unai Fernández de Betoño

- Aug 15, 2014

Answer

I would read what master architect Louis Kahn wrote about bringing books to the light, when he designed the library at Exeter. It's an interesting story. For example, the faculty committee that commissioned the library instructed Louis Kahn that "the emphasis should not be on housing books, but on housing readers using books."

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- 8 Recommendations



Aaron Paris

- asked a question related to Architecture and Design

How does the act of physical model making in architecture influence the design process and impact the final outcome of the built environment?

Question

7 answers

- May 20, 2014

I am looking for input to help the development of this thesis question and/or possible avenues of research.

Input may include specific architects that strictly use physical model making to inform their design decisions or literature that might review this design technique.

All comments and criticisms are welcome.

Relevant answer



Aaron Paris

- May 23, 2014

Answer

Nesma El-Saqqa

Thank-you for your input, a very interesting thought of conducting such survey. I had an idea of surveying architecture students versus working professionals to see if the two groups think differently and could possibly answer such questions:

- Do students only build models for presentation purposes and not to help them through the design process or to overcome design issues?
- Is there a lack of education in architecture schools related to model making?
- Is it common practise for practising architects to constantly build models to aid design?
- Do professionals not build models because they're too time consuming and costly to produce, and are people neglecting design exploration because of a monetary value?
- Is there a link between limited design exploration and bad architecture, or 'less resolved architecture'?

Kalliopi I. Valsamidou

I just finished watching that documentary on Frank Gehry, amazing! Thanks a lot for that link.

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- 36 Recommendations



Matt Briody

- asked a question related to Architecture and Design

What is the value of building know-how in architectural practice today, and how is its value reflected in current architectural pedagogy?

Question

6 answers

- May 3, 2014

In general: does knowing how to lay bricks, or frame walls or fit plumbing make you a better architect? Do architects value such skills in the people they work with?

Assuming that such skills are valued, how are they taught? An architecture course is long and involves learning a little bit about a lot of things. How much time should be devoted to learning such skills within a 4-5 year course?

Relevant answer



Remo F Pedreschi

- May 8, 2014

Answer

It depends on your view point. At the University of Edinburgh we include substantial practical construction studies related to material namely concrete. Students are encouraged to design and build large scale pieces using fabric as the formwork. They have to develop their design through repeated production and development over a six week period, They learn a good deal about the material itself and the need for precision, care, handling, finishing assembly and fabrication. See book Fabric Formwork and www.fabricformedconcrete.ed.ac.uk

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- 16 Recommendations



Aaron Paris

- asked a question related to Architecture and Design

Thesis Research - Architectural Model Making - Thoughts?

Question

5 answers

- Mar 25, 2014

I'm looking at physical architectural model making and it's importance within the design process. I believe that physical model making is a 'dying art form' within design and that many architects only build models for presentation purposes, rather than utilising it to inform design decisions. For students, this might stem from Architecture school / university / college and what they're taught and from a professional level, might be controlled by the restrictions of money and project budgets.

This thesis topic will aim to investigate architectural model making to prove that if incorporated into design processes, that it can save time, money and that it can better the quality of an overall design.

How I am going to approach this topic I am unsure as yet. Feel free to reply with any inputs or thoughts for discussion.

Relevant answer



Renee Wever

- Apr 4, 2014

Answer

An interesting comparison might be to look at model making in product design. The PhD work of Pei (Loughborough University under supervision of Evans and Campbell) which also resulting in the iPhone app "ID cards" might be inspirational!

journal papers from that work:

Pei, E., Campbell, I., & Evans, M. (2011). A taxonomic classification of visual design representations used by industrial designers and engineering designers. *The Design Journal*, 14(1), 64-91.

Pei, E., Campbell, I. R., & Evans, M. A. (2010). Development of a tool for building shared representations among industrial designers and engineering designers. *CoDesign*, 6(3), 139-166.

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- 5 Recommendations



Carol Le Strange

- asked a question related to Architecture and Design

Looking for the beginnings of the modernism movement, in particular, the Catalan version, Modernisme?

Question

8 answers

- Mar 18, 2014

As part of a lit review in preparation for a Culture and Theory essay within a Masters program. Any suggestions are greatly appreciated.

Relevant answer



Nelson Orringer

- Mar 19, 2014

Answer

Carol, I am glad to have been of service. My own research was right on the point of your fine question.

[View](#)

- 4 Recommendations



Mikkel Austin-Bennett

- asked a question related to Architecture and Design

How has the collaboration between Digital Technology transformed the teachings of Architectural Design?

Question

4 answers

- Sep 16, 2013

I am doing research about the relationship between the use of digital technologies and architectural design in practice and education. What I am inspired by is the current trend and issues upon this topic. What do architects, professors and students think about these uses?

Relevant answer



Alberto Sdegno

- Nov 6, 2013

Answer

I wrote an article on Casabella that you can download in which I considered how digital technology changed the architectural design in the work of two significant architects: Peter Eisenman and Frank Gehry

[View](#)

- 10 Recommendations



Gezahegn Aweke

- asked a question related to Architecture and Design

Which approach is effective and efficient in conceptualizing design ideas in architecture: 'form follows function' or 'function follows form'?

Question

7 answers

- Nov 19, 2012

For example, should the form of a building be designed to fit the intended function or or the other way around?

Relevant answer



Akshay Prabhakar Patil

- Feb 21, 2013

Answer

In my opinion there is no direct answer justifying any one of the options mentioned by you. In architecture and also urban design we are dealing with systems which are adaptive. And hence purely relying on any one option for generating design ideas may not prove to be effective and efficient. A comprehensive look suggests that form as well as function co-evolve over varying temporal scales which is triggered by any one of it. As a designer it is important to understand this vital aspect of aspect of architecture and urban design. A designer can only provide opportunity of achieving coherence among form and function at different temporal scales. That is why we may not have total control over it. A designer can only develop spatial structure which offers this, further the form and function co-evolve.

[View](#)

- 2 Recommendations



S. Vahid Faghihi

- asked a question related to Architecture and Design

Problem with Export and Import of IFC in Revit

Question

2 answers

- Dec 2, 2012

When I create a simple steel beams and columns structure and import and export it a couple of times to and from Revit, almost everything gets messed up! Has anybody encountered such a problem?

Also, when I import a Revit-Created-IFC to Navisworks, some elements are not shown and are replaced with lines instead. Any idea why this is happening?

You can download the Revit file from the attached link.

- [Projec
t3.rvt](#)

2.64 MB

Relevant answer



Yudi Nugraha

- Dec 3, 2012

Answer

before exporting/importing the file it is better to re-check all the requirement and the procedure of export/import. It is to minimize the mess up. Export/import between Revit (arch, structure, MEP) maybe works (sometime) but to another vendor it is a big question. It is probably need software from a single vendor.

[View](#)