

FIRMITAS, UTILITAS, VENUSTAS

Pengantar Arsitektur Minggu 4

Marcus Vitruvius Pollio (90 SM-20 SM)

- Arsitek dan Penulis di era Romawi
- Definisi Arsitektur
- De architectura libri decem → Ten Books of Architecture

Ten Books on Architecture

- Pendidikan
- Material
- Konstruksi
- Proporsi
- Bangunan Publik & Privat
- Pengairan
- Pencahayaan
- Elemen mekanis
- Penanda waktu

Prinsip-prinsip Arsitektur

Definisi Prinsip / Principles

Asal kata : Latin ,principium/principia(jamak), yang berarti source(s), foundation(s), dasar

Berdasarkan Oxford Dictionary :

“a fundamental truth or proposition that serves as the foundation for a system of belief or behavior or for a chain of reasoning”

“a general scientific theorem or law that has numerous special applications across a wide field.”

“a fundamental source or basis of something”

Prinsip-prinsip Arsitektur

Definisi Prinsip / Principles

Berdasarkan Merriam Webster Dictionary :

“a comprehensive and fundamental law, doctrine, or assumption “

“a primary source”

“an underlying faculty or endowment”

“an ingredient (as a chemical) that exhibits or imparts a characteristic quality “

Prinsip-prinsip Arsitektur

Definisi Prinsip / Principles

Berdasarkan Kamus Besar Bahasa Indonesia :

“asas (kebenaran yg menjadi pokok dasar berpikir, bertindak, dan sebagainya)”

Prinsip-prinsip Arsitektur

- Firmitas
- Utilitas
- Venustas

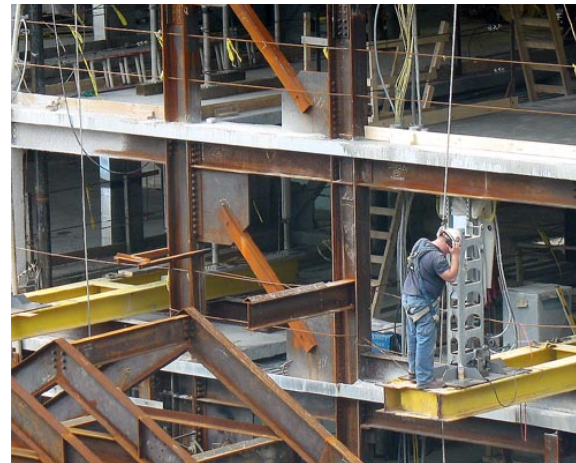
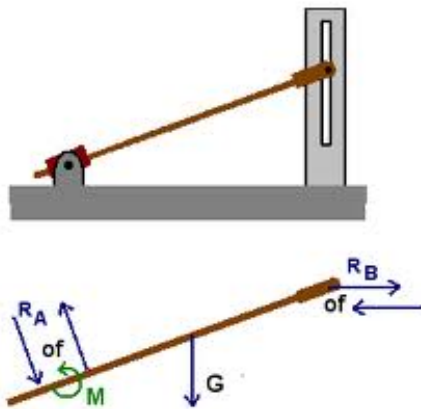
Firmitas

Bagaimana suatu objek arsitektur
Berdiri ?

- Statika
- Struktur - Konstruksi
- Material



Sumber : architecture.com



Sumber :
halperconstruction.com



Sumber : thisbigcity.net

Sumber : nl.wikibooks.org

Firmitas

- *Physical structure*
- *Perceptual structure*



Lake Shore Apartment, Mies van der Rohe
Sumber : floornature.com



Lake Shore Apartment, Mies van der Rohe
Sumber : archiseek.com

Firmitas

- *Physical structure*
- *Perceptual structure*



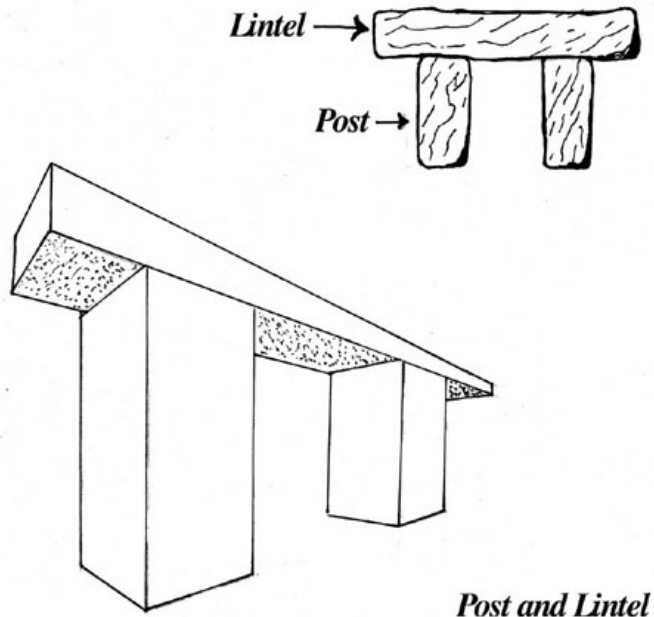
Sumber :
skyscrapercity.com



Sumber : almaya.net

Firmitas

- *Kolom dan balok*



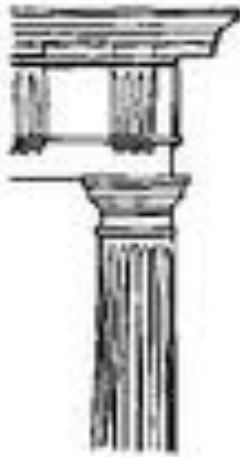
Sumber :
jsolorzano.wikispaces.com



Sumber : britannica.com

Firmitas

- *Kolom dan balok*



Doric



Ionic



Corinthian



Composite



Tuscan

Sumber :
history.utah.gov

Utilitas

Bagaimana suatu objek arsitektur berfungsi?

- Mampu memwadahi, mendukung, dan memperkuat aktivitas
- Mampu bertahan
- Mampu menawarkan “kesenangan”

Utilitas



Crown Hall, Illinois Institute of Technology,
Mies van der Rohe
Sumber : bc.edu



Crown Hall, Illinois Institute of Technology,
(Interior) Mies van der Rohe
Sumber : bc.edu

Utilitas



TWA Terminal, Eero Saarinen
Sumber : mas.org



TWA Terminal (Interior), Saarinen
Sumber : NYC-architecture.com

Utilitas



Water Cube
Sumber : en.beijing2008.cn



Water Cube
Sumber : dailymail.co.uk

Utilitas



Dayak Traditional House
Sumber : fieldandstream.com



Salman Mosque
Sumber : skyscrapercity.com

Venustas

- Estetis
 - Ordinatio (proporsi elemen)
 - Dispositio (penataan elemen)
 - Eurythmia (ke”pantas”an, ke”cocok”an)
 - Symmetria (keseimbangan)
 - Décor (preseden, mengacu kepada hal yang telah ada sebelumnya)
 - Distributio (penggunaan material dan perhitungan biaya)

Venustas

- Bentuk
- Cahaya
- Tekstur
- Warna
- Ornamen
- Akustik

Bentuk



Aqua Building
Sumber : mymodernmet.com

Cahaya



Empire State Building
Sumber : needigest.com

Cahaya



Sumber : oakazine.com

Tekstur



Sumber : schwakestone.com

Warna



Longford School Library
Sumber : talkinterior.com

Warna



Orestad College, Denmark
Sumber : archittravel.com



Orestad College, Denmark
Sumber : designcrave.com

Ornamen



Barcelona, Gaudi
Sumber : archdialog.com

Ornamen



Istana Versaille, Prancis
Sumber : architecture.about.com

Akustik



Sumber : ukslc.org