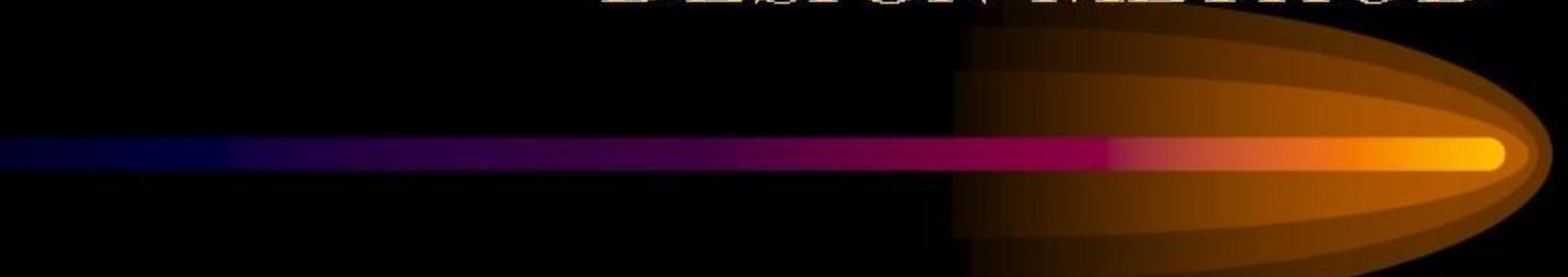


DESIGN METHOD

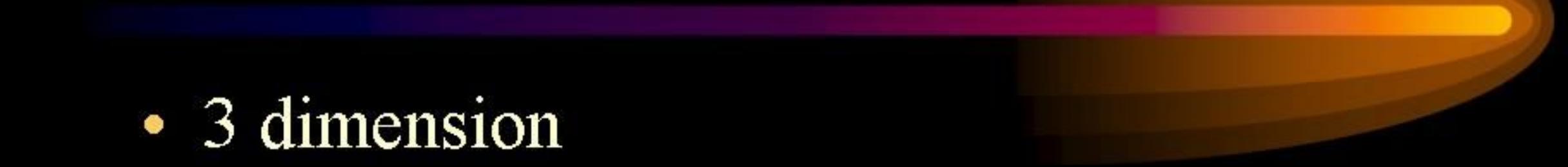


Dr. Ir . A. Rudyanto Soesilo

Conceptual sketches

a. Rudyanto soesilo

Conceptual sketches



- 3 dimension
- Free hand
- Specs laden
- Spatial

Conceptual sketches on Design approaches

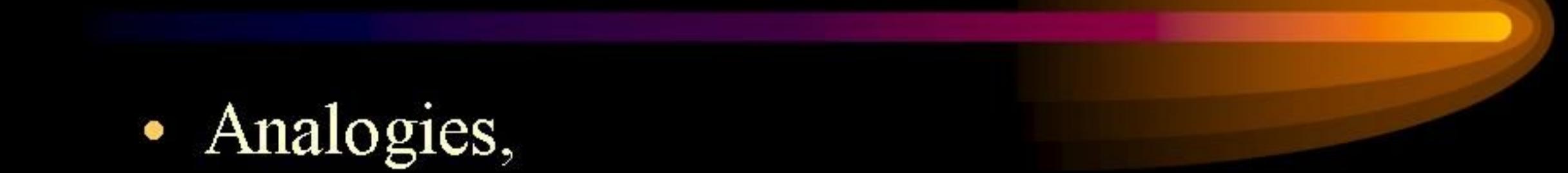
- External approach (Macro)
- Internal approach (Micro)

Synonyms of Concepts in architecture



- Architectural ideas
- T.h.e.m.e.
- Superorganizing ideas
- P.a.r.t.i. / Scheme
- E.s.q.u.i.s.s.e. / Sketch

Types of Concepts in architecture



- Analogies,
- Metaphors,
- Essences,
- Direct response, (Programmatic problem solving),
- I.d.e.a.l.s.

DEFINISI PARTI

Menurut *dictionary.com*

The basic scheme or concept of architectural

Menurut *wikipedia.org* :

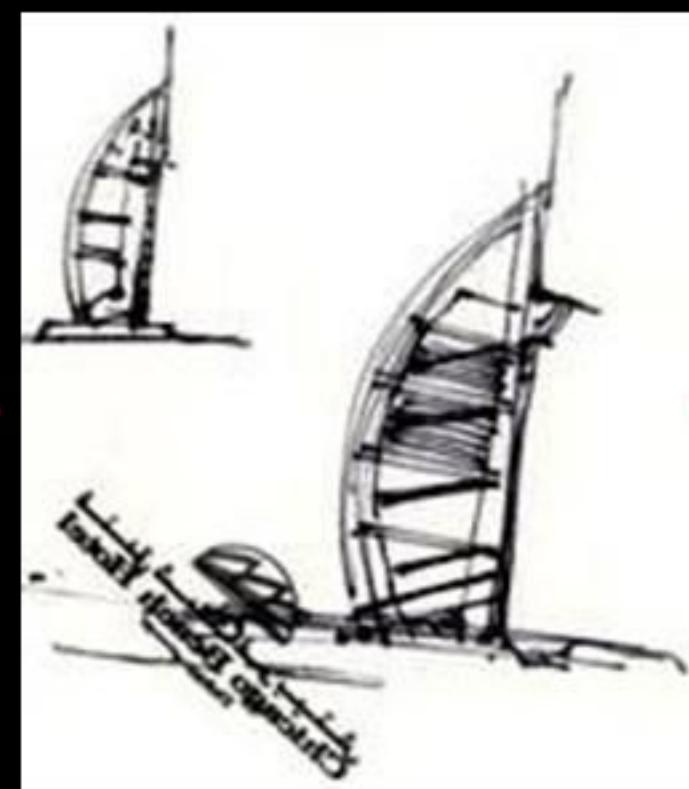
A Parti or **Parti pris**/ from the French *Prendre parti* meaning "to make a decision ", often referred to as

The big idea, is the chief organizing thought or decision behind an Architect's Design presented in the form of a basic diagram and / or a simple statement.

PARTI

"If you can draw a building with a few sweeps of the pen and everyone recognises not only the structure but also associates it with a place on earth, you have gone a long way towards creating something iconic"

Tom Wright 2000



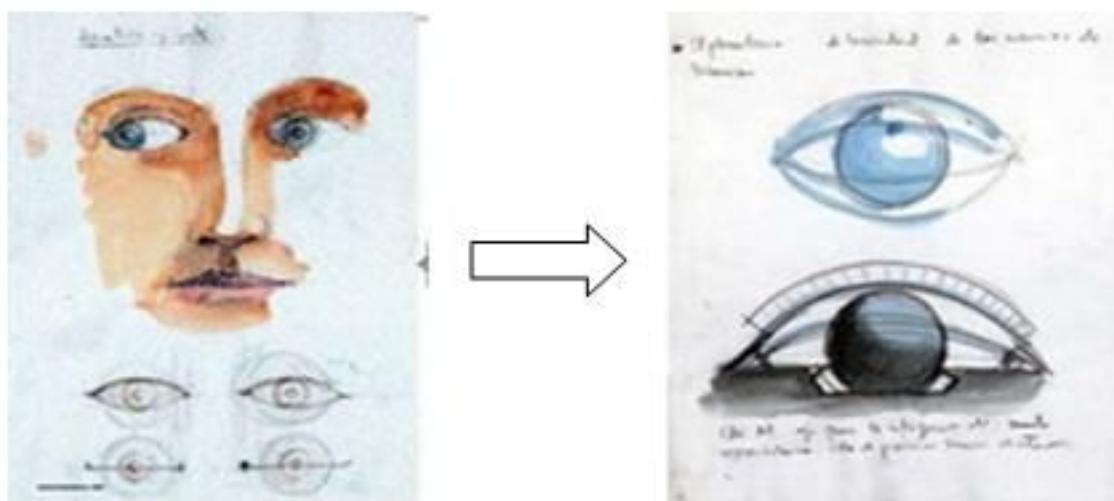
THE CITY OF ARTS AND SCIENCES

OLEH SANTIAGO CALATRAVA



The City of Arts and Sciences adalah bangunan yang berfungsi sebagai pusat pendidikan sekaligus hiburan yang didesain oleh Santiago Calatrava

Gambar The City of Arts and Sciences,
sumber : www.travelinginspain.com/valencia/arts_science.htm

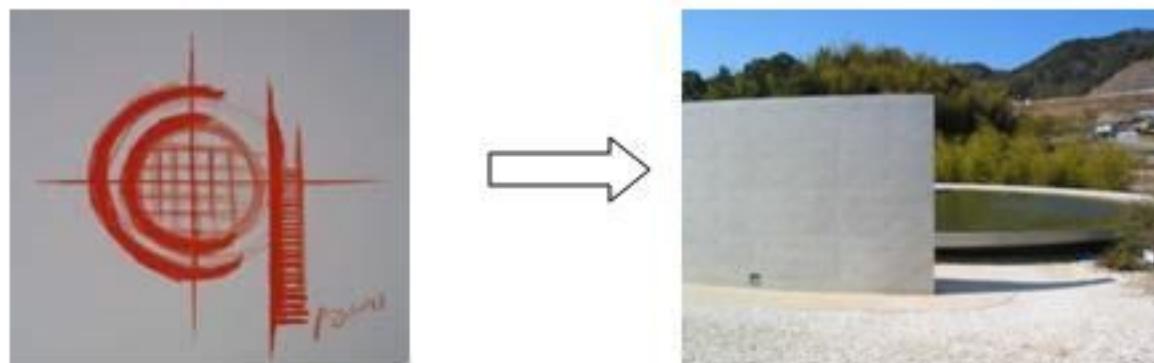


Gambar pembentukan massa dari parti
Sumber : www.architect-swc.com

WATER TEMPLE OLEH TADAO ANDO



Gambar Water Temple
Sumber : www.liaoyusheng.com



Gambar pembentukan massa dari parti
Sumber : www.architect-swc.com, dan www.liaoyusheng.com

Water Temple adalah bangunan yang berfungsi sebagai tempat ibadah umat Buddha yang terletak di daerah Hompukuji. Kota ini merupakan salah satu kota kecil yang terletak di pulau Awajishima.

THE GHERKIN

OLEH NORMAN FOSTER



Gambar pembentukan massa dari parti
Sumber : www.architect-swc.com, dan www.eikongraphia.com

The Gherkin merupakan salah satu gedung pencakar langit terkenal di London. Gedung ini didesain oleh Norman Foster yang merupakan salah satu arsitek ternama di Eropa. Gedung ini memiliki tinggi 180 meter, dengan 40 lantai dan menjadikannya gedung ke-2 tertinggi di kota London



Gambar sindiran terhadap bentuk The Gherkin
Sumber : www.eikongraphia.com

Oleh : A. Rudyanto Soesilo

Concepts in architecture

Concepts in architecture

- Ideas that integrate various elements into a whole
- Ideas, Notions, Thoughts, Observations.
- A specific way that programmatic requirements, context and beliefs can be brought together
- Types : Analogies, Metaphors, Essences, Direct response (Programmatic problem solving), Ideals

Concepts in architecture

- Do not have to be invented by the architect
- Can be Core Issues
- Ideas,
- Notions,
- Thoughts,
- Observations.

Synonyms of Concepts in architecture

- Architectural ideas
- T.h.e.m.e.
- Superorganizing ideas
- P.a.r.t.i. / Scheme
- E.s.q.u.i.s.s.e. / Sketch
- Literal translations

Types of Concepts in architecture

- Analogies,
- Metaphors,
- Essences,
- Direct response, (Programmatic problem solving),
- I.d.e.a.l.s.

Architectural ideas

- Concept that have been reduced to a formal architectonic concern : Daylight, space, structure and form, siting in the landscape or townscape
- Used as the basis for the design decisions that follow

T.h.e.m.e

- Specific pattern or idea that recurs throughout the design of a project.
- Can be narrow or general in intention
- Like : a specific geometric theme that appears throughout the project

Superorganizing ideas

- Some rules that the parts of a project should respect, like :
 - A geometric configurations or
 - Hierarchies
 - Overall organizing pattern
 - Variations can be allowed as long as they reinforce the overall pattern

Literal translations

- Strong idea that is architectural rather than sculptural or painterly
- Can be drowned immediately as abstraction or a diagram of the architectural idea
- Become simplified plan for the project
- Expressible in the kind of sketch one might do on a napkin

/Sketch

- Conceptual and graphic products of a particular method of instruction developed in the Beaux Arts School of France XIX century.
 - Students develop high conceptual skills
 - Preliminary sketch of the building configuration in the first few hours of work on a project and to hold to that *Parti* through out the project

DEFINISI PARTI

Menurut *dictionary.com*

The basic scheme or concept of architectural

Menurut *wikipedia.org* :

A **Parti** or **Parti pris**/ from the French ***Prendre parti*** meaning
"to make a decision ", often referred to as

The big idea, is the chief organizing thought or decision behind an Architect's Design presented in the form of a basic diagram and / or a simple statement.

PARTI

"If you can draw a building with a few sweeps of the pen and everyone recognises not only the structure but also associates it with a place on earth, you have gone a long way towards creating something iconic"

Tom Wright 2000



Metoda Preseden



- Meneladani karya2 arsitektur yg Prima (Good architecture) dari arsitek2 genius (Good architect).
 - Cara :
- Mencari pola2 pemecahan arsitektonis dari karya2 unggulan arsitektur
- metoda oleh : Roger Clark & Michael Pause

Analisis arsitektonis Preseden

- Struktur
- Pencahayaan alami
- Massa
- Perbandingan denah ke tampak/pot
- Sirkulasi ke ruang2
- Perbandingan unit keseluruhan
- Perbandingan pengulangan ke unik
- Simetri & balance

FORMATIVE IDEAS

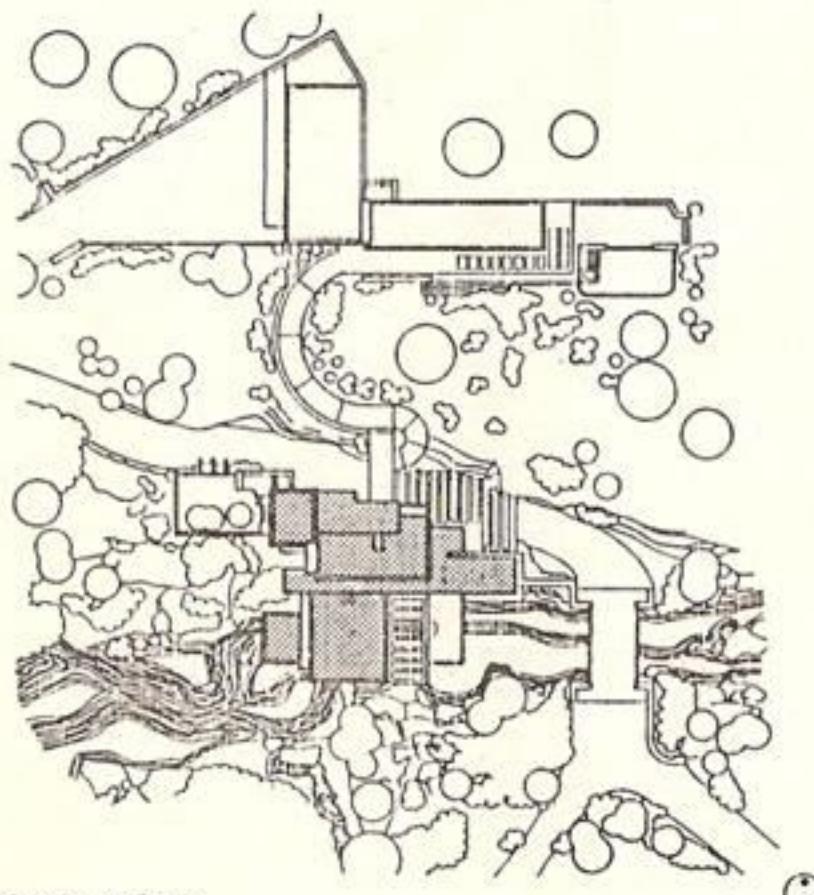
- Kesamaan-kesamaan dalam pendekatan perancangan dikelompokan dalam thema2 dominan atau gagasan formative
- GAGASAN FORMATIF:
 - Suatu konsep yang digunakan seorang arsitek untuk merancang bentuk/form dalam rancangannya.
 - Membantu mengorganisir pengambilan keputusan
 - Menetapkan order/tatanan
 - Meningkatkan kesadaran pengambilan BENTUK

GAGASAN FORMATIF

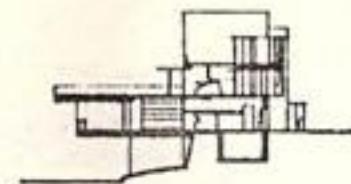
- Denah dibanding pot/tampak
- Unit dibanding keseluruhan
- Perulangan dibanding unik
- Additive - Subtractive
- Simetri & Balance
- Geometri
- Pola-pola konfigurasi
- Progresi
- Reduksi

FRANK LLOYD WRIGHT

FALLINGWATER (EDGAR J. KAUFMANN HOUSE)
OHIOPYLE, PENNSYLVANIA
1935



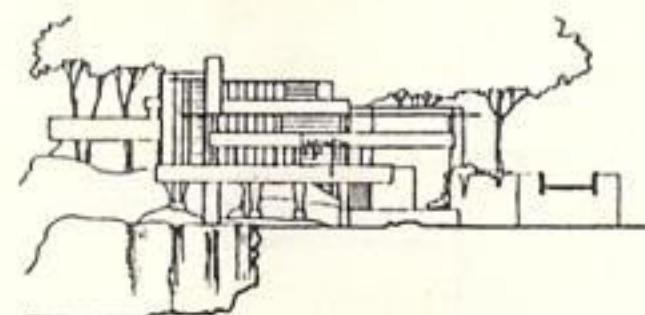
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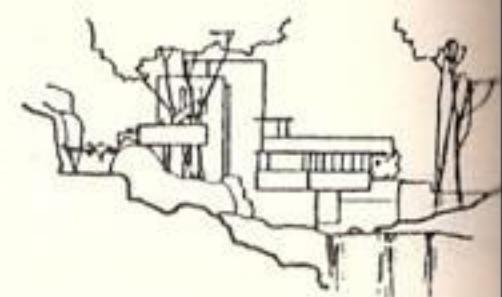
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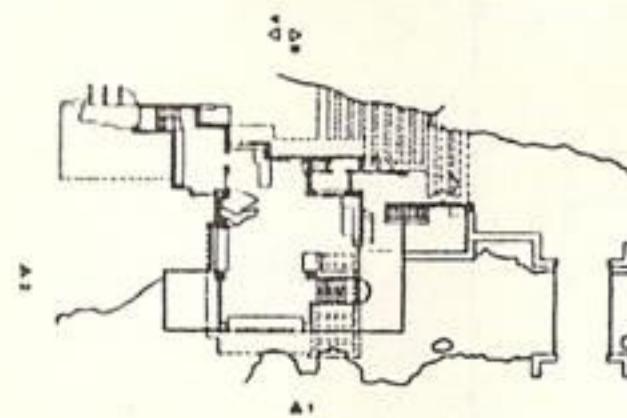
POTONGAN B



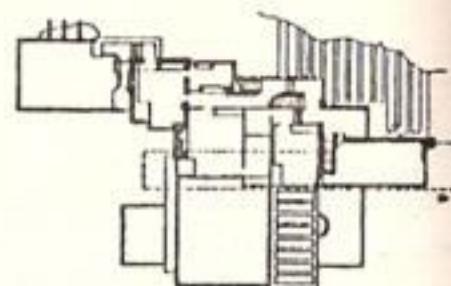
TAMPAK 1



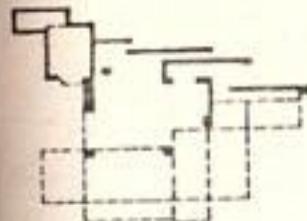
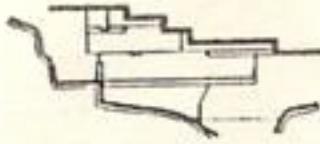
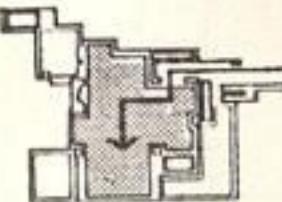
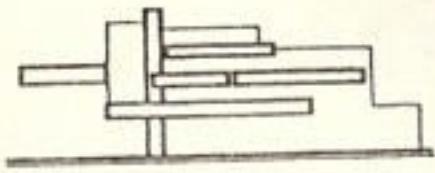
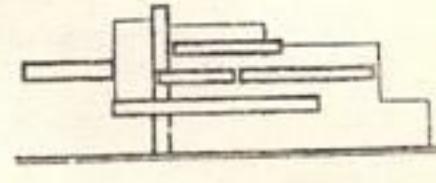
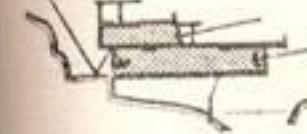
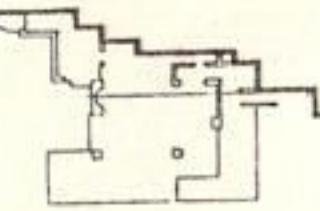
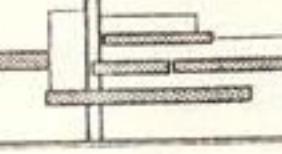
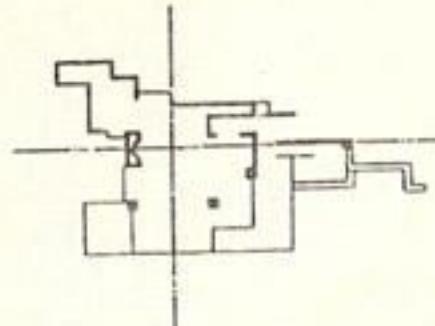
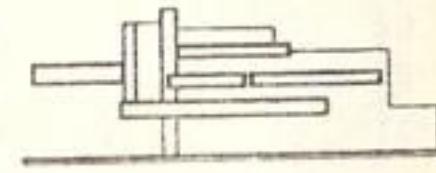
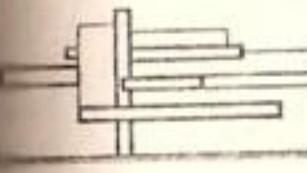
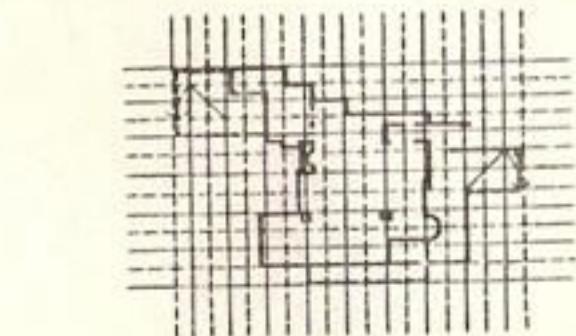
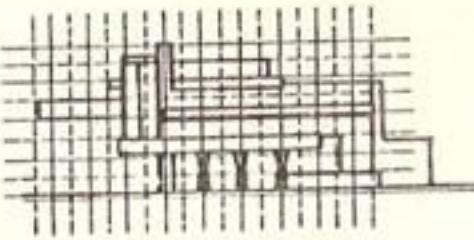
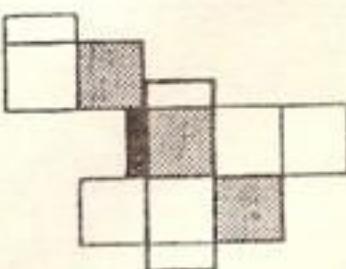
TAMPAK 2



DENAH LANTAI BAWAH

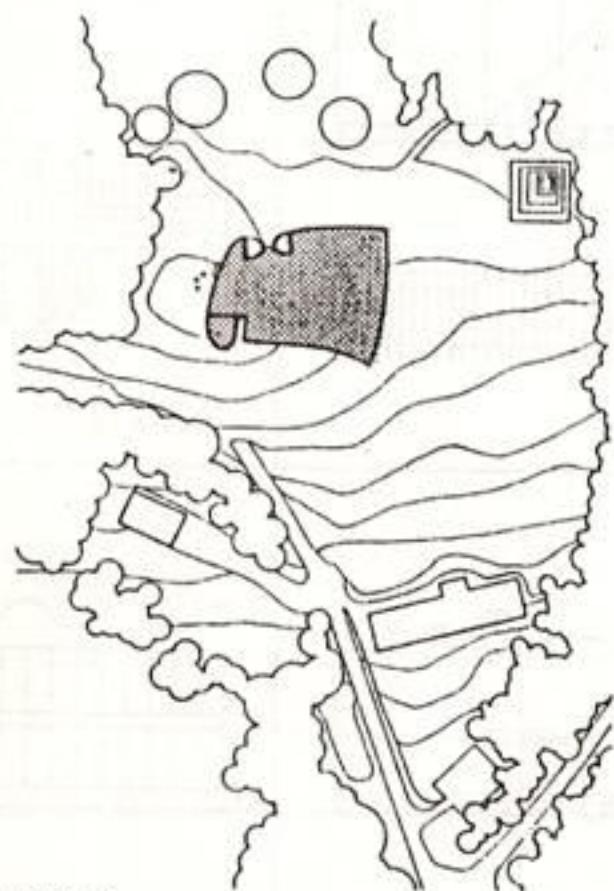


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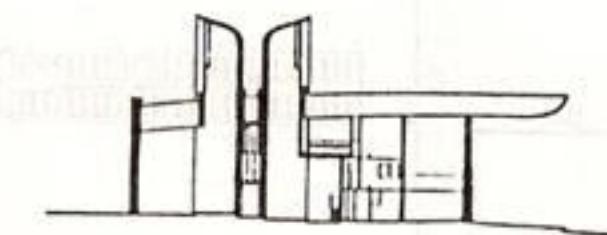
				
STRUKTUR		SIRKULASI KE RUANG-PAKAI	UNIT KE KESELURUHAN	PENAMBAHAN DAN PENGURANGAN
				
AKTIVITAS ALAMIAH	DENAH KE POTONGAN	PERULANGAN KE UNIK	SIMETRI DAN KESEIMBANGAN	HIERARKI
				
AMBENTUKAN MASSA	GEOMETRI			SKEMA

LE CORBUSIER

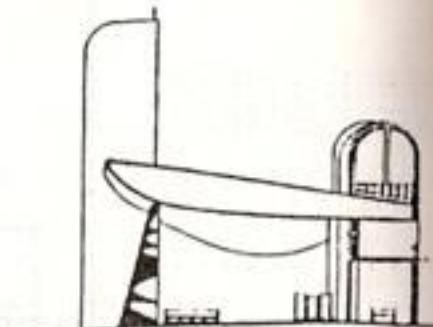
NOTRE DAME DU HAUT CHAPEL
RONCHAMP, FRANCE
1950-1955



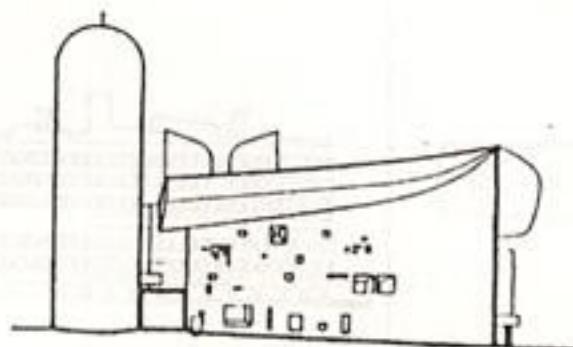
RENCANA TAPAK



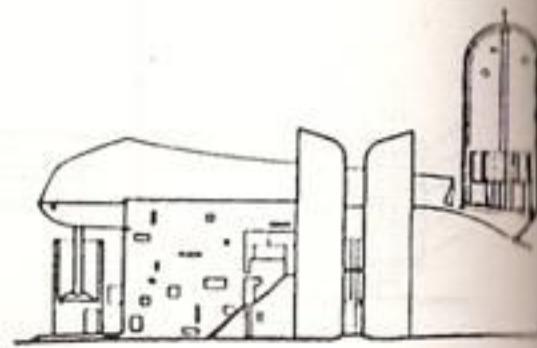
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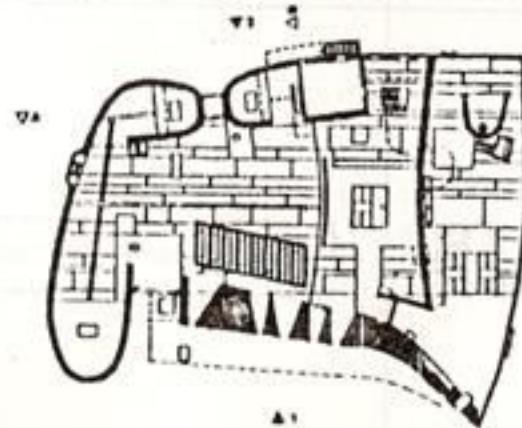
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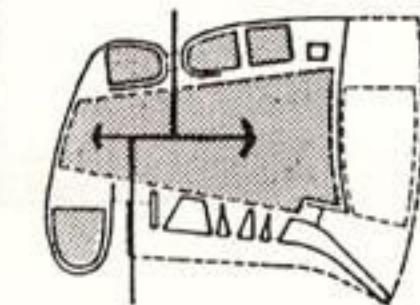
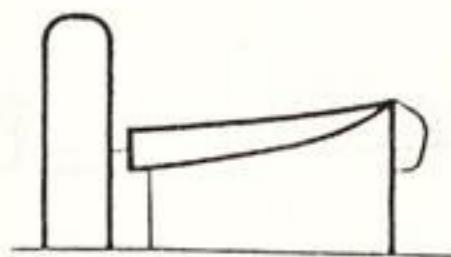
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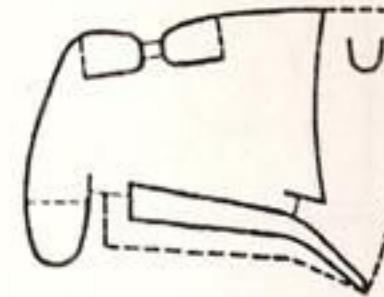
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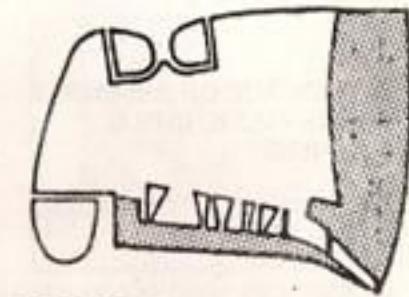
DENAH LANTAI



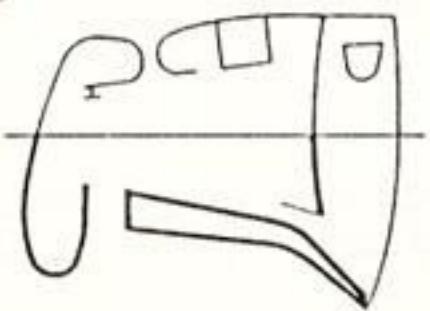
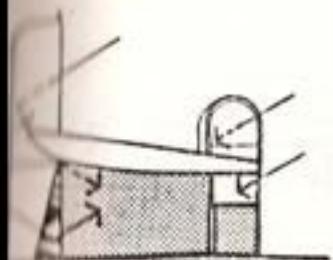
SIRKULASI KE RUANG-PAKAI



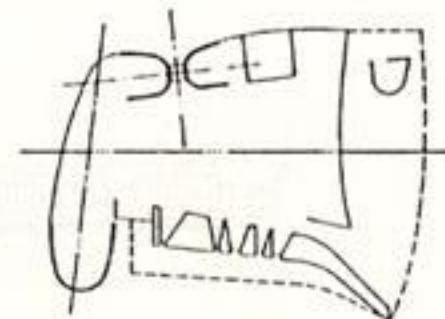
UNIT KE KESELURUHAN



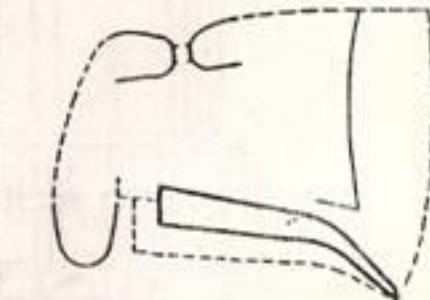
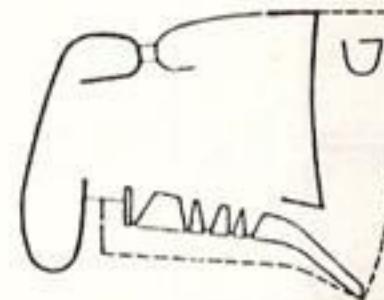
PENAMBAHAN
DAN PENGURANGAN



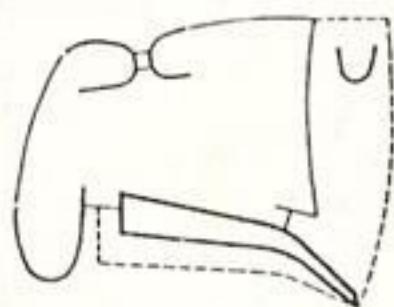
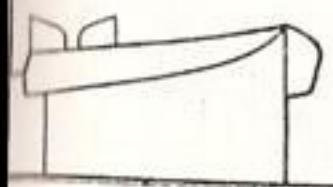
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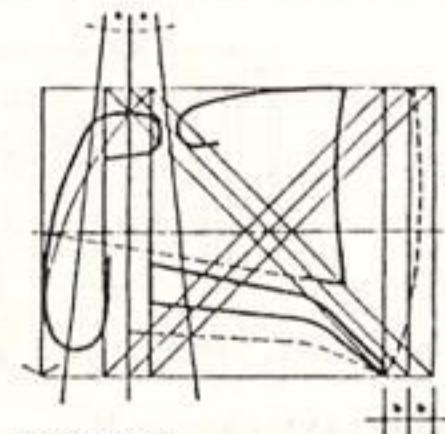
SIMETRI DAN KESEIMBANGAN



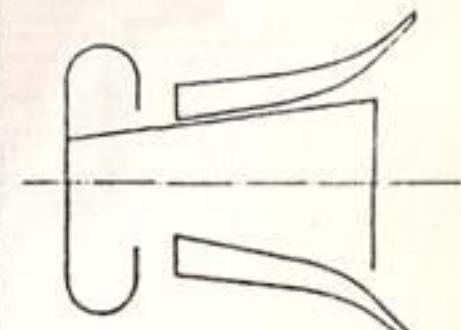
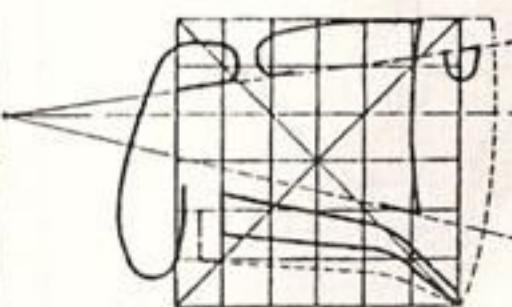
HIERARKI



PERULANGAN KE UNIK



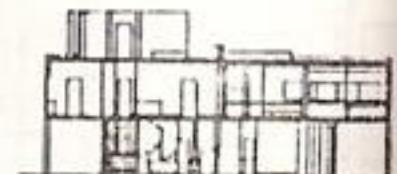
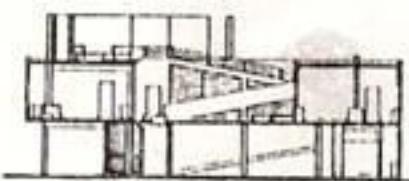
GEOMETRI



SKEMA

LE CORBUSIER

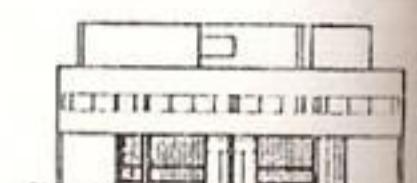
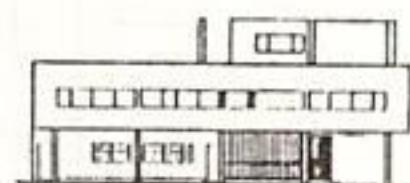
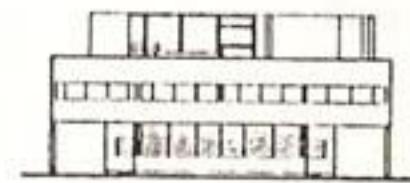
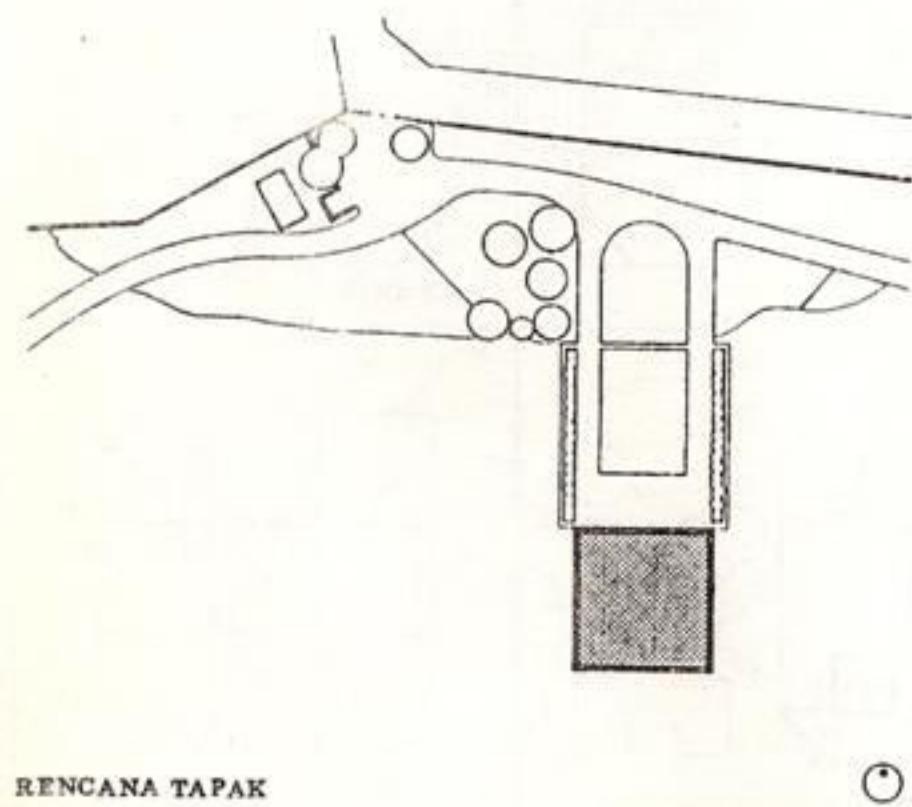
VILLA SAVOYE
POISSY, FRANCE
1928-1931



POTONGAN A

POTONGAN B

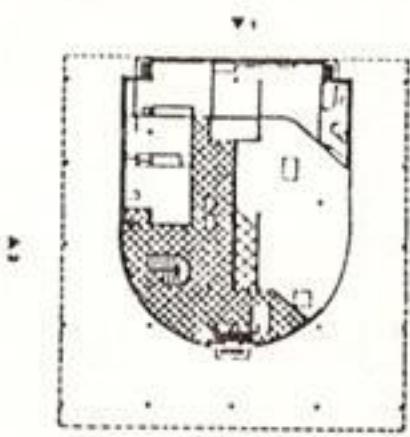
POTONGAN C



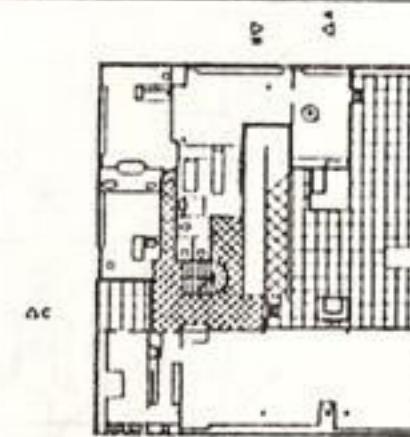
TAMPAK 1

TAMPAK 2

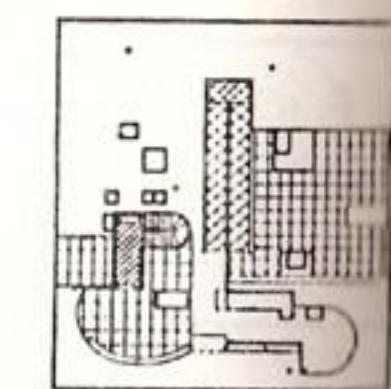
TAMPAK 3



DENAH LANTAI BAWAH

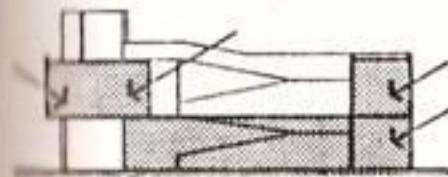


DENAH LANTAI TENGAH

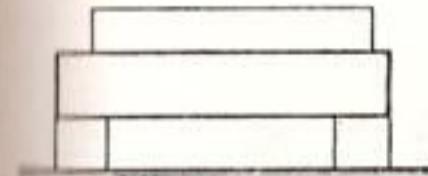


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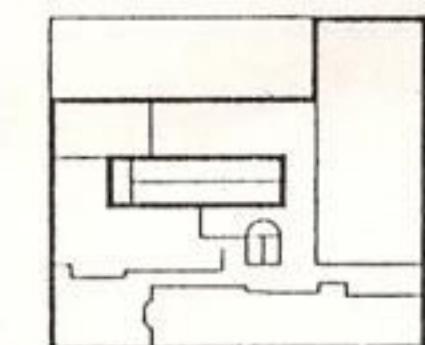
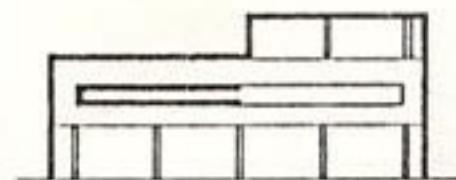
STRUKTUR



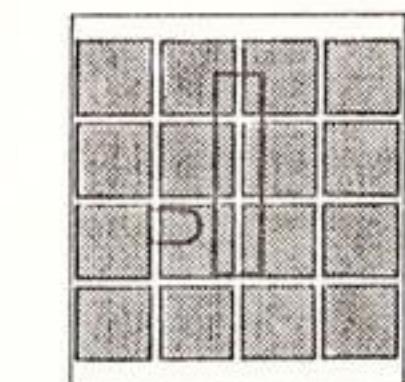
CAHAYA ALAMIAH



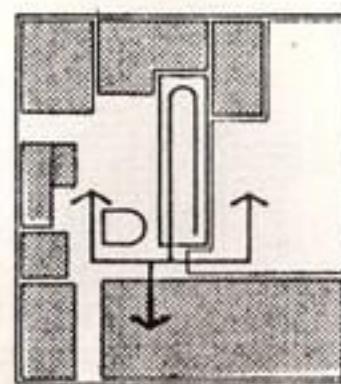
FMBENTUKAN MASSA



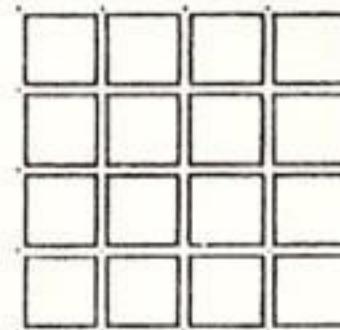
DENAH KE POTONGAN



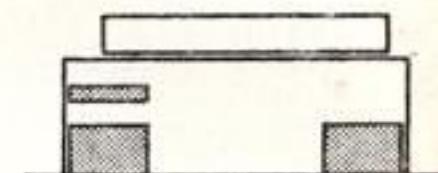
PERULANGAN KE UNIK



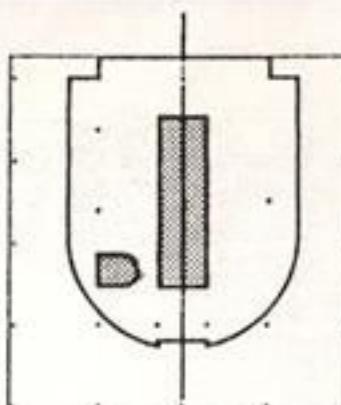
SIRKULASI KE RUANG-PAKAI



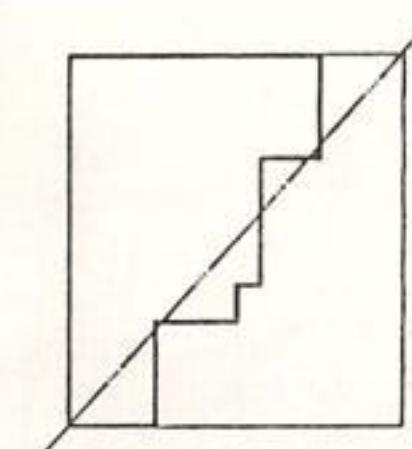
UNIT KE KESELURUHAN



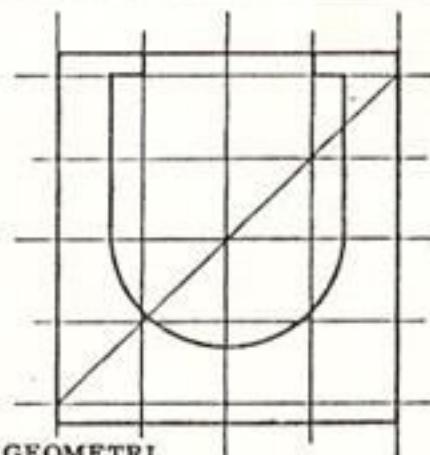
PENAMBAHAN
DAN PENGURANGAN



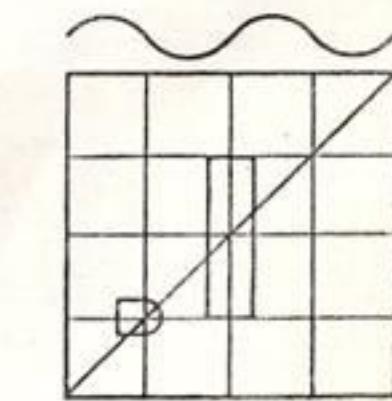
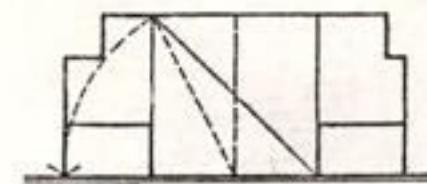
SIMETRI DAN KESEIMBANGAN



HIERARKI



GEOMETRI



SKEMA

Style in Architecture

A. Rudyanto Soesilo

Design vocabulary

- ▶ **Style, Theory & History**
- ▶ **Art & Aesthetic**
- ▶ **Form & Structure**
- ▶ **Climate, Lighting, acoustic**
- ▶ **Urban Approach**
- ▶ **Behavioral Sciences :**
 - **Psychology, Anthropology, Sociology**
- ▶ **Ideology, Philosophy & Religion,**

Creative process

- ▶ Insight >>> Design Vocabulary
- ▶ Preparation >>> Program
- ▶ Incubation
- ▶ Illumination/AHA >>> Concepts
- ▶ Verification
- ▶ Production>>> Design

Format in Architecture

Bruce Allsop

- ▶ Format : Size, space, structure
- ▶ Definisi:
 - Dlm Literatur: Novel, Biografi
 - Dlm Puisi : Soneta, Epik, Lirik
 - Dlm Musik: Sonata, Opera
- ▶ Architecture : >>constraints
- ▶ Format of Function: building types
- ▶ Format of Design system: Prefab, modular
- ▶ Format of Style: Culture, value system
- ▶ Format of Pattern: Symmetry, context

The Design sub-System

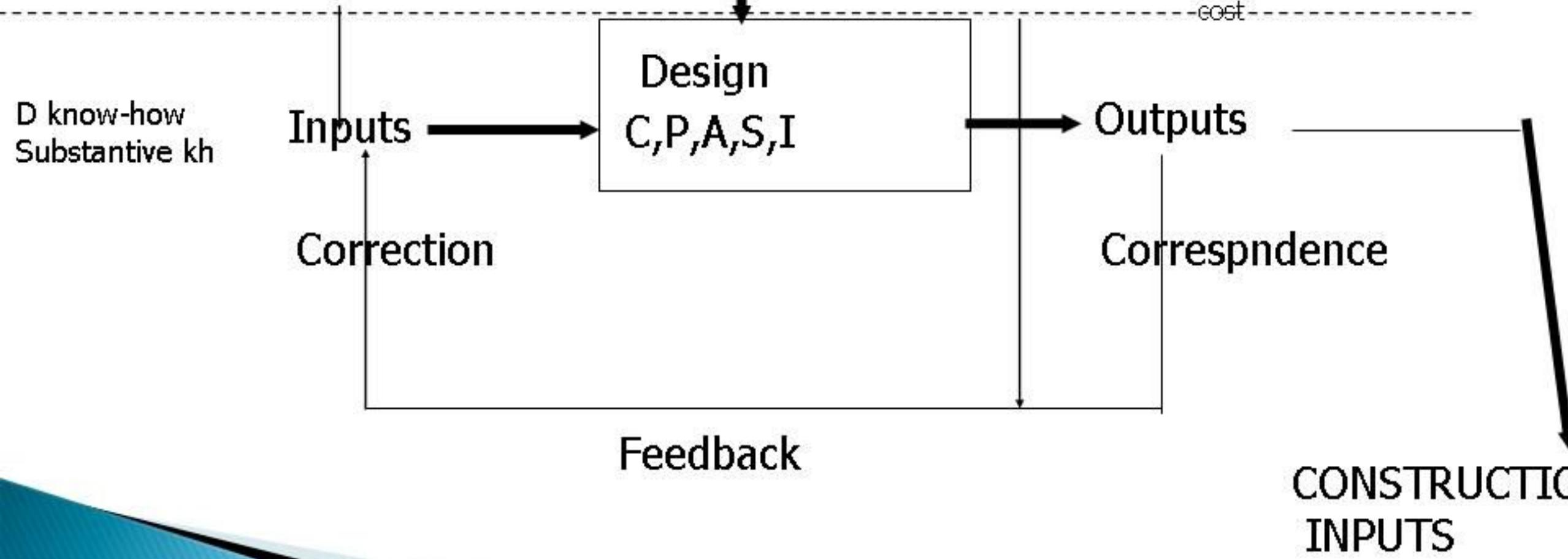
Criteria :
Human performance
Symbolic performance
Technical&Environemental
Economic Performance

Restrictions

Objectives :

Human
Environmental
Facility

Constraints:
Human characteristics
Physical environment
Technology&institutions
cost



Design decision making

- ▶ Style
- ▶ Structural system
- ▶ Construction technology
- ▶ Material

Design Process

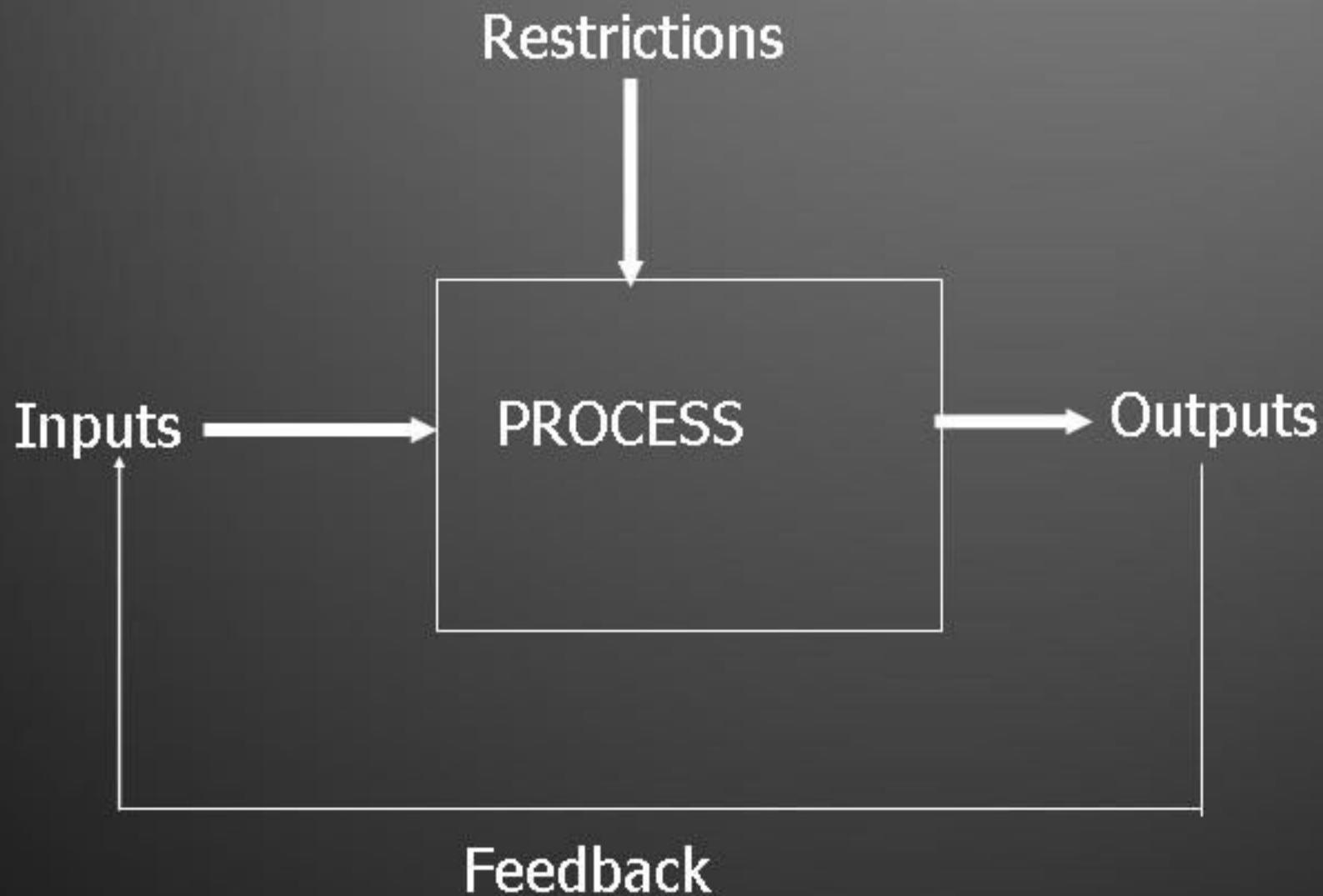
5 main steps : (Benjamin Handler)

- ▶ Conceptualization
- ▶ Programming
- ▶ Analyzing
- ▶ Selection
- ▶ Integration

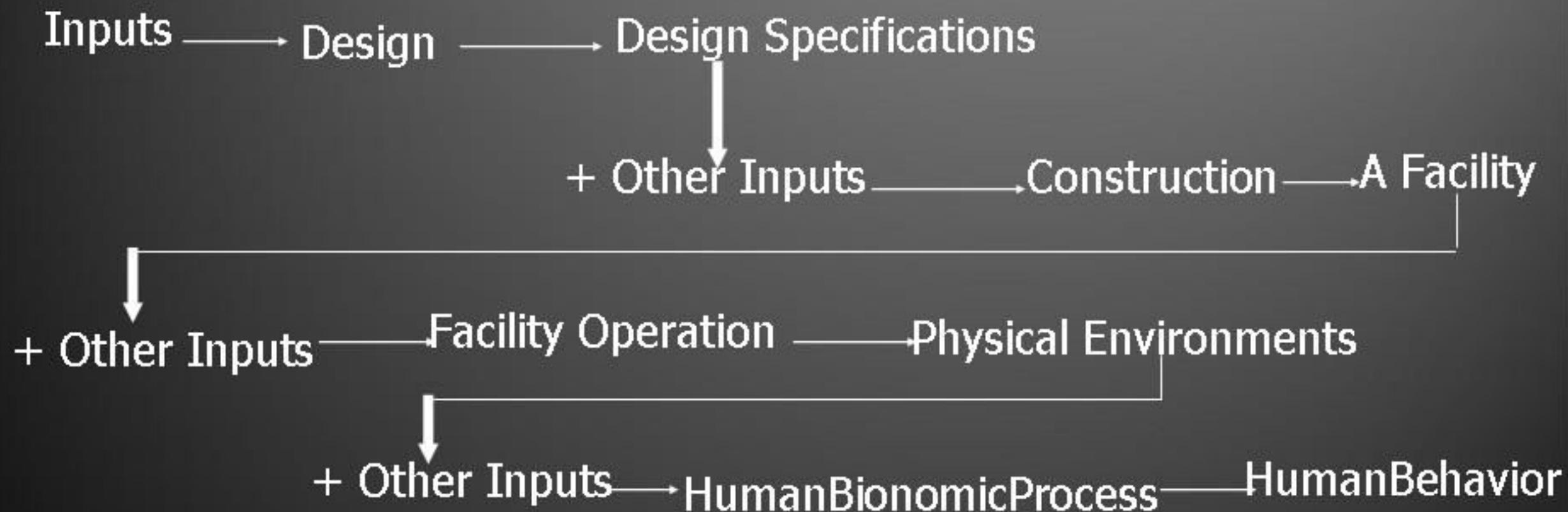
The architectural System

- ▶ Design process
- ▶ Construction process
- ▶ Facility Operation
- ▶ Human Bionomic Process

The architectural System



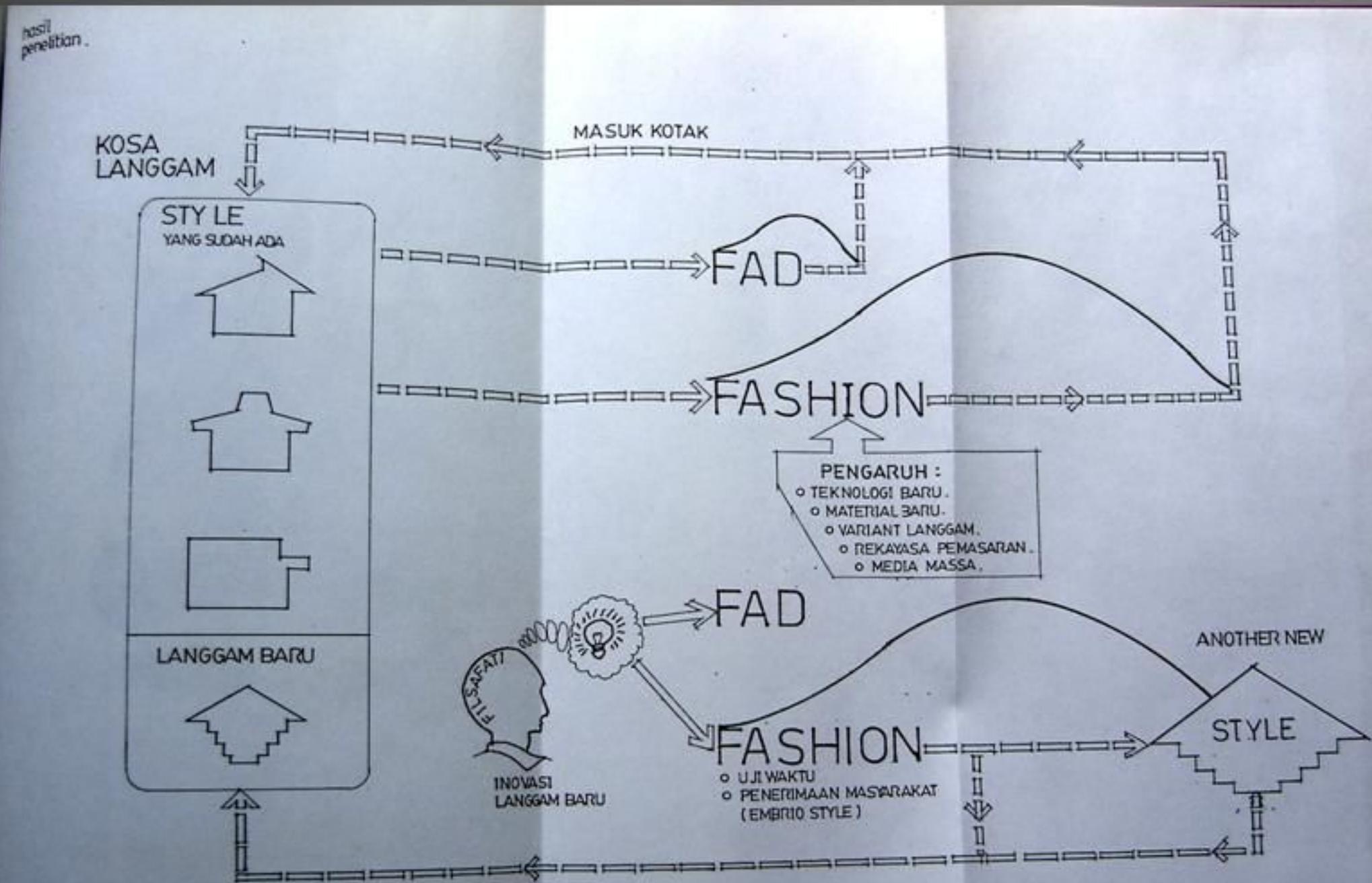
Relation between the Architectural System



Elements of Style

- ▶ Façade
- ▶ Roof
- ▶ Doors & Windows
- ▶ Cornices
- ▶ Columns
- ▶ Lay-out
- ▶ Architectural Clues

Daur Langgam



M.O.D.E.L.
DAUR MODE & TERJADINYA LANGGAM

Episode

- ▶ Ancient
- ▶ Early Christian
- ▶ Medieval
- ▶ Renaissance
- ▶ Baroque
- ▶ Revolutionary
- ▶ 20th Century

Architecture is elementary

E p i s o d e

Architectural Styles

- [Neolithic](#)
- [Ancient Egyptian](#)
- [Ancient Greek](#)
- [Ancient Roman](#) · [timeline](#)
- [Medieval](#)
- [Gothic](#)
- [Hindu Architecture](#)
- [Islamic](#)
- [Romanesque](#)
- [Traditional Japanese](#)
- [Renaissance](#)
- [Baroque](#)
- [Victorian](#)
- [Romantic](#)
- [Art Nouveau](#) · [timeline](#)
- [Richardsonian](#)
- [Arts and Crafts](#)
- [Neo-Classical](#)
- [Art Deco](#)
- [Early Modern](#)
- [Prairie Style](#)
- [Bay Area Regional](#)
- [Modern](#) - long list
- [Expressionist Modern](#) · [timel](#)
- [Deconstructivist Modern](#)
- [Corporate Modern](#)
- [Post Modern](#)
- [High Tech](#)
- [Expressionist](#)
- [Vernacular](#)
- [African Vernacular](#)
- [Neo-Vernacular](#)

Precedent in Architecture

Metoda Preseden

- ▶ Meneladani karya2 arsitektur yg Prima (Good architecture) dari arsitek2 genius (Good architect).
 - Cara :
- ▶ Mencari pola2 pemecahan arsitektonis dari karya2 unggulan arsitektur
- ▶ metoda oleh : Roger Clark & Michael Pause

Analisis arsitektonis Preseden

- ▶ Struktur
- ▶ Pencahayaan alami
- ▶ Massa
- ▶ Perbandingan denah ke tampak/pot
- ▶ Sirkulasi ke ruang2
- ▶ Perbandingan unit keseluruhan
- ▶ Perbandingan pengulangan ke unik
- ▶ Simetri & balance
- ▶ Geometri
- ▶ Additif – Substraktif
- ▶ Hierarchy

FORMATIVE IDEAS

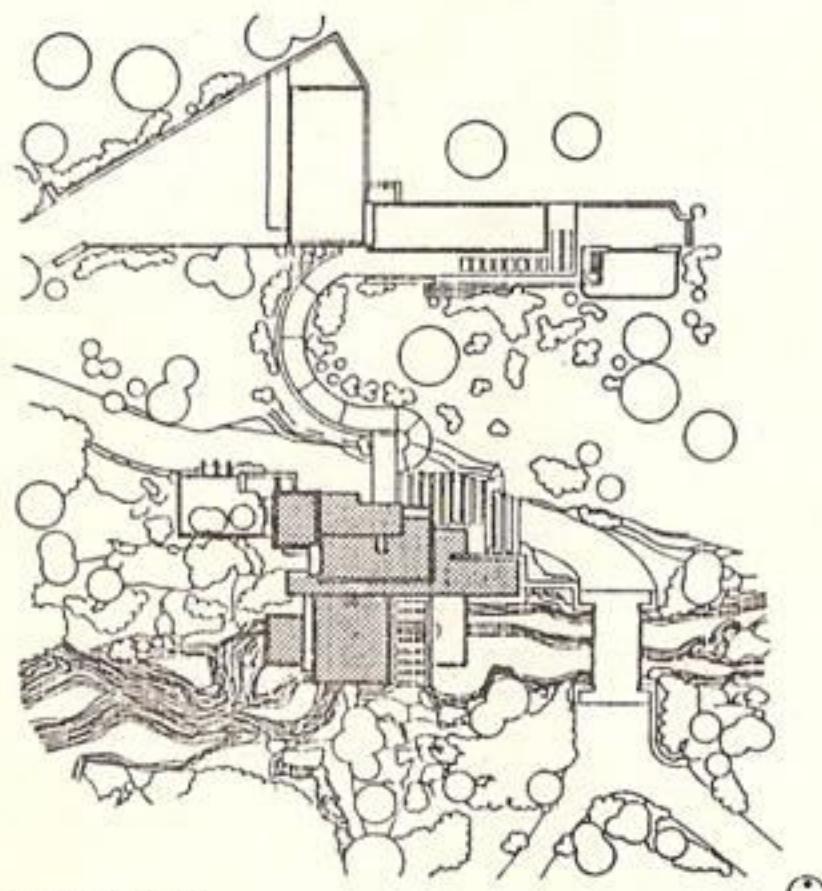
- ▶ Kesamaan-kesamaan dalam pendekatan perancangan dikelompokan dalam thema2 dominan atau gagasan formative
- ▶ **GAGASAN FORMATIF:**
 - Suatu konsep yang digunakan seorang arsitek untuk merancang bentuk/form dalam rancangannya.
 - Membantu mengorganisir pengambilan keputusan
 - Menetapkan order/tatanan
 - Meningkatkan kesadaran pengambilan BENTUK

GAGASAN FORMATIF

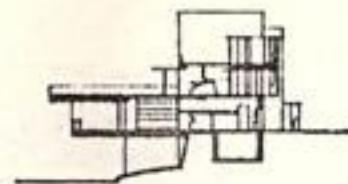
- ▶ Denah dibanding pot/tampak
- ▶ Unit dibanding keseluruhan
- ▶ Perulangan dibanding unik
- ▶ Additive – Substractive
- ▶ Simetri & Balance
- ▶ Geometri
- ▶ Pola-pola konfigurasi
- ▶ Progresi
- ▶ Reduksi

FRANK LLOYD WRIGHT

FALLINGWATER (EDGAR J. KAUFMANN HOUSE)
OHIOPYLE, PENNSYLVANIA
1935



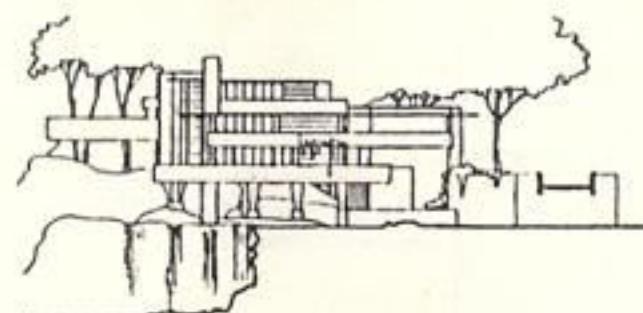
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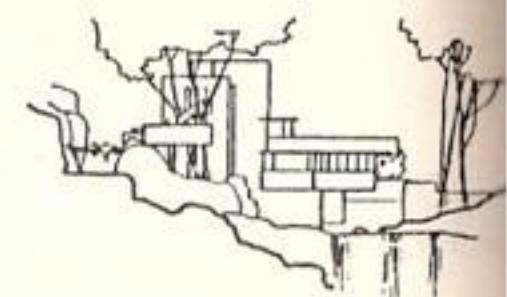
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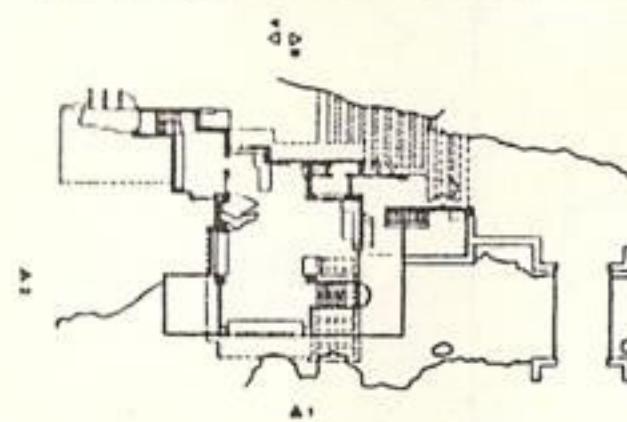
POTONGAN B



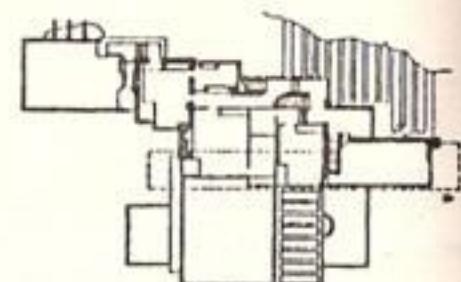
TAMPAK 1



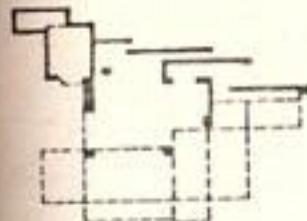
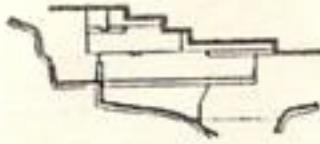
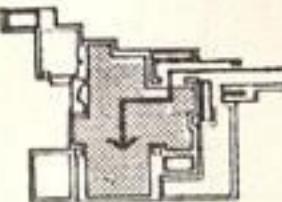
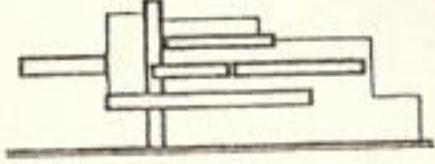
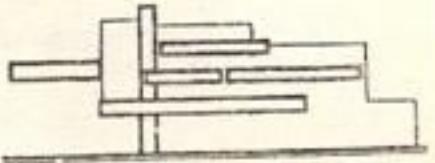
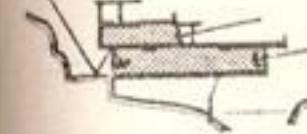
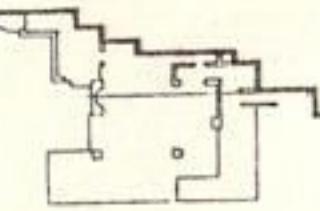
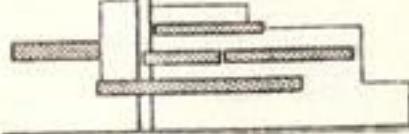
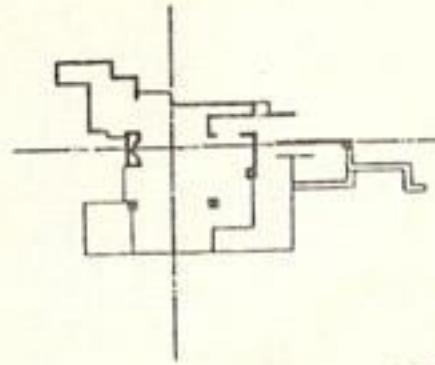
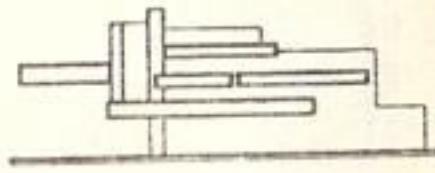
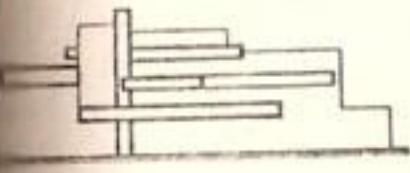
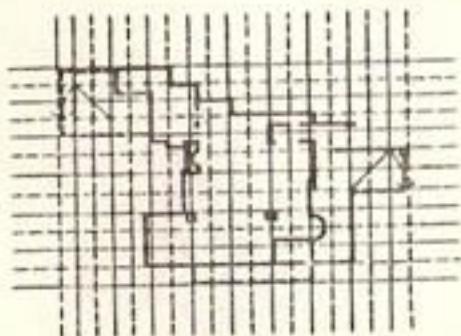
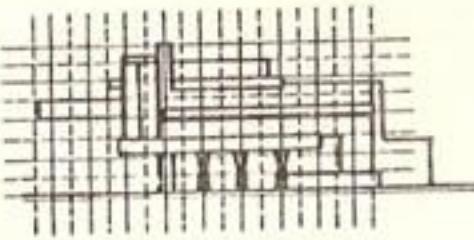
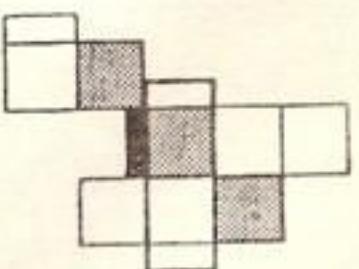
TAMPAK 2



DENAH LANTAI BAWAH

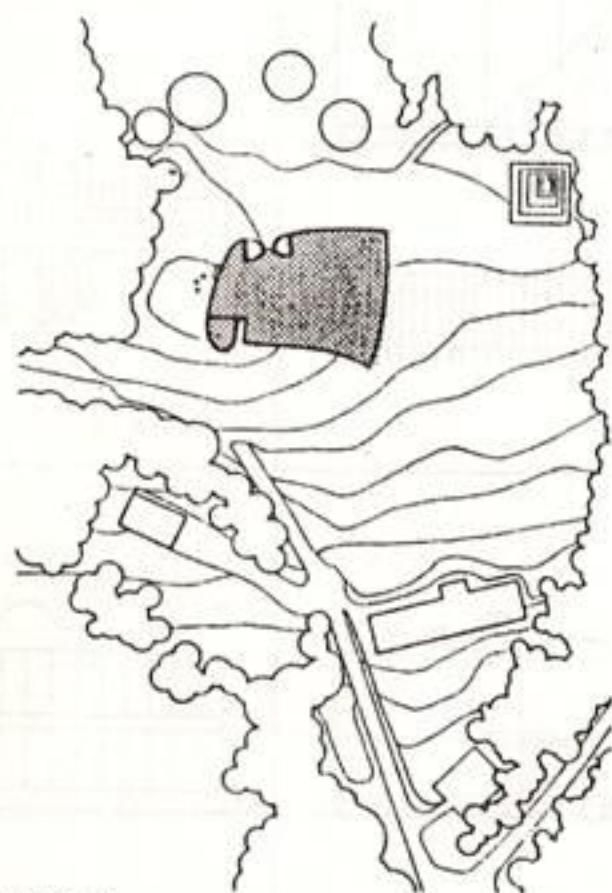


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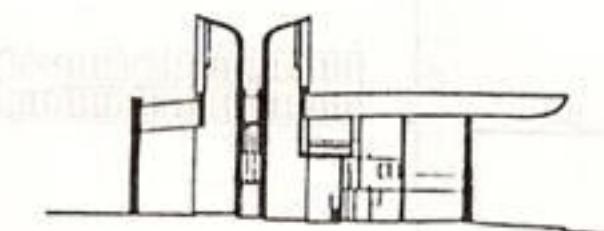
		 SIRKULASI KE RUANG-PAKAI	 UNIT KE KESELURUHAN	 PENAMBAHAN DAN PENGURANGAN
 AHAYA ALAMIAH	 DENAH KE POTONGAN	 PERULANGAN KE UNIK	 SIMETRI DAN KESEIMBANGAN	 HIERARKI
 AMBENTUKAN MASSA	 GEOMETRI			 SKEMA

LE CORBUSIER

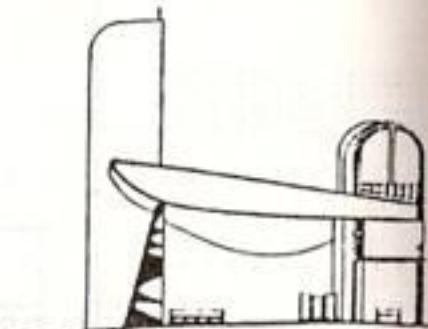
NOTRE DAME DU HAUT CHAPEL
RONCHAMP, FRANCE
1950-1955



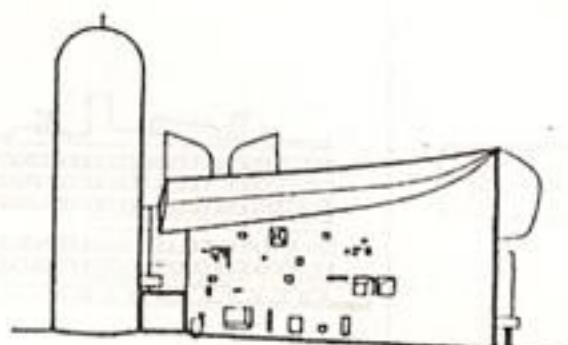
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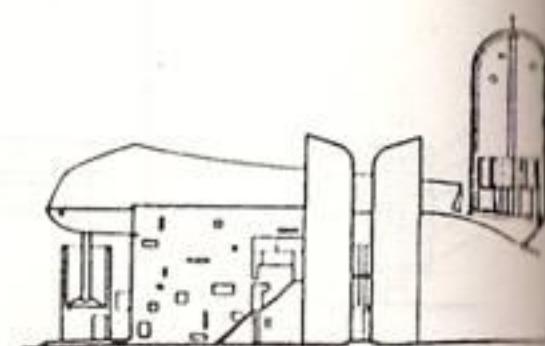
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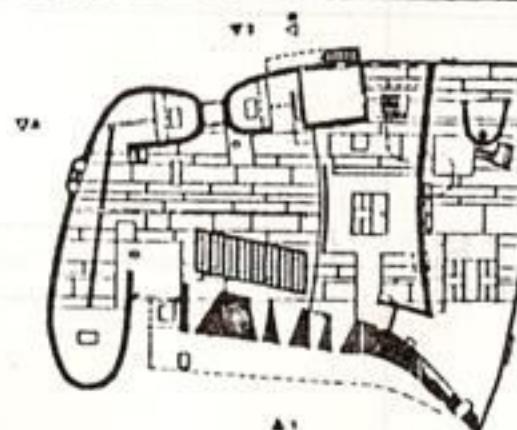
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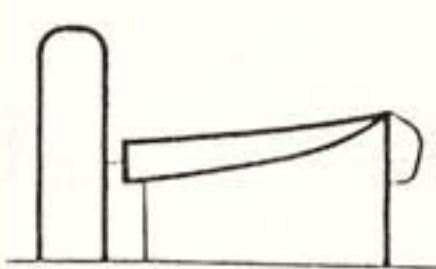
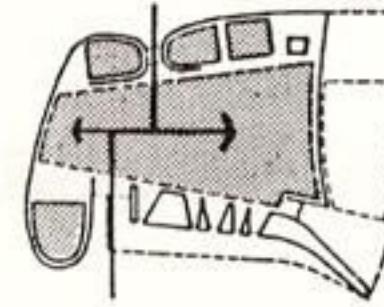
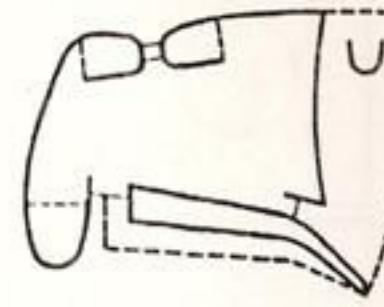
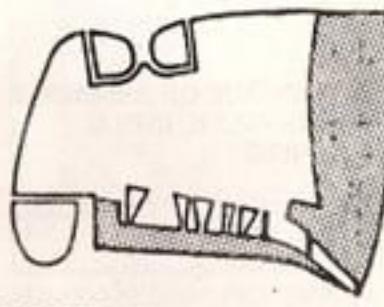
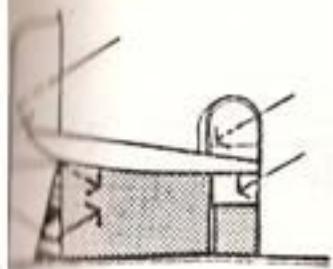
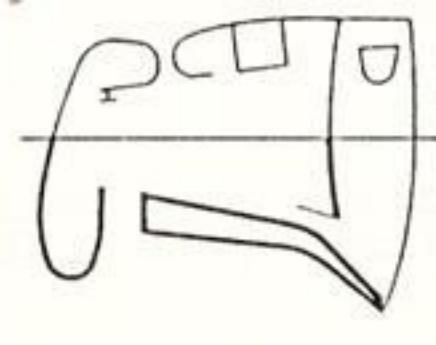
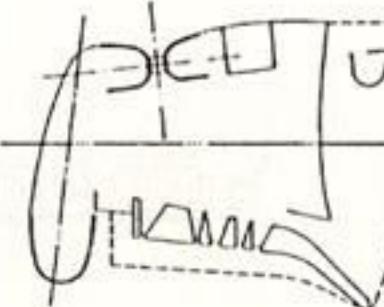
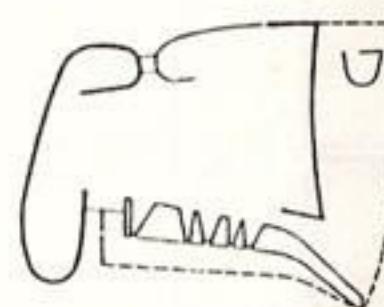
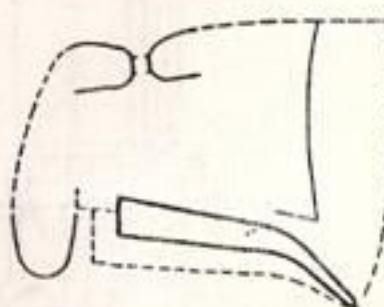
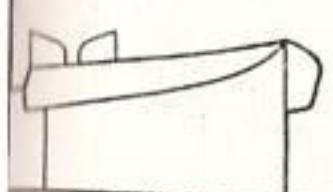
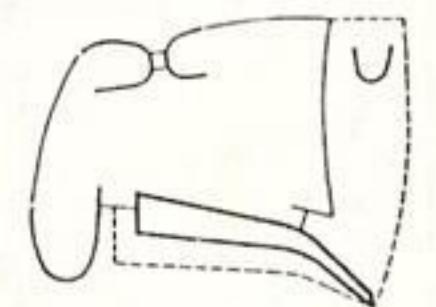
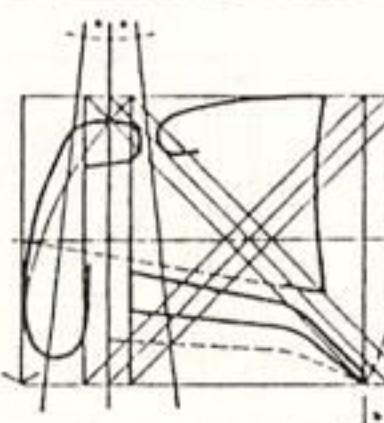
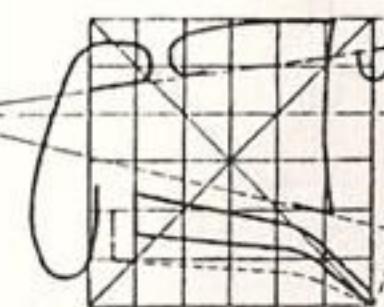
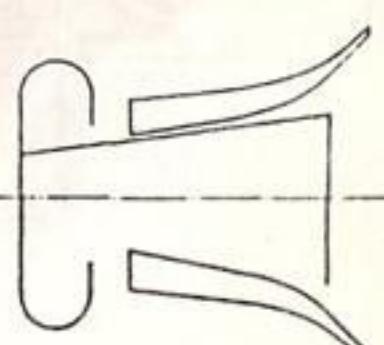
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TAMPAK 2

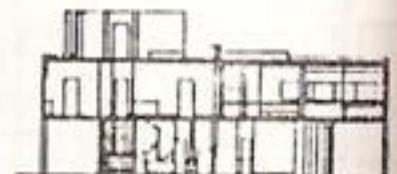
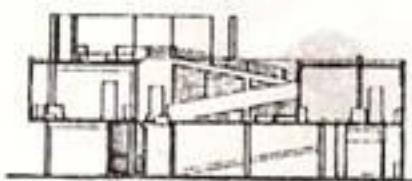


DENAH LANTAI

				
ESTETIK		SIRKULASI KE RUANG-PAKAI	UNIT KE KESELURUHAN	PENAMBAHAN DAN PENGURANGAN
				
YA ALAMIAH	DENAH KE POTONGAN	SIMETRI DAN KESEIMBANGAN		HIERARKI
				
INTUKAN MASSA	PERULANGAN KE UNIK	GEOMETRI		SKEMA

LE CORBUSIER

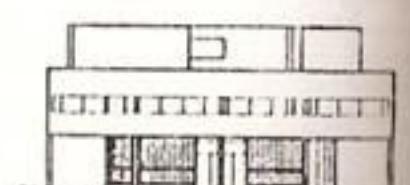
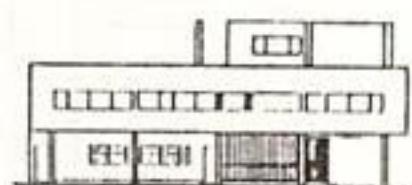
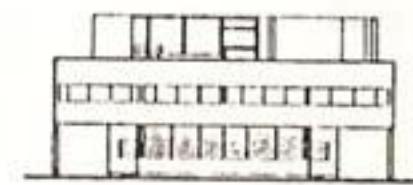
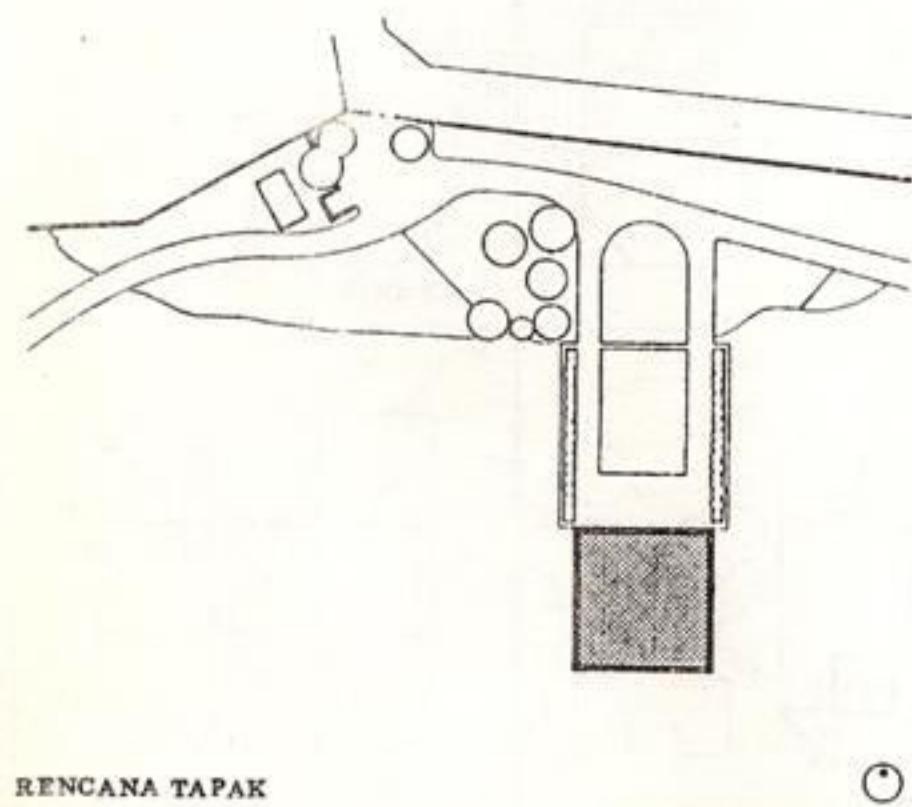
VILLA SAVOYE
POISSY, FRANCE
1928-1931



POTONGAN A

POTONGAN B

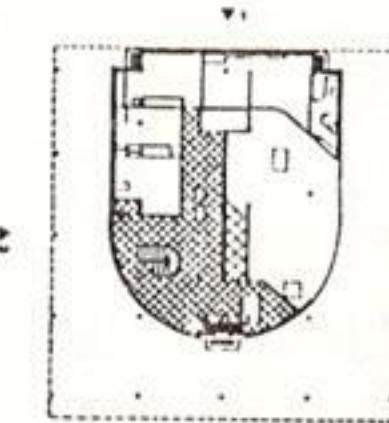
POTONGAN C



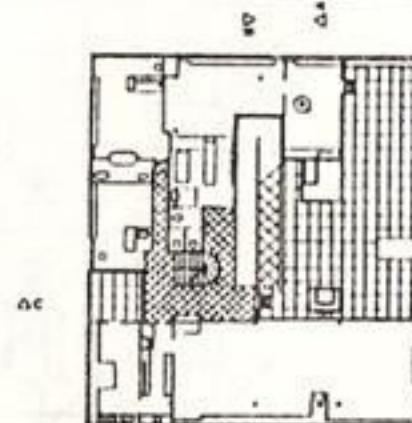
TAMPAK 1

TAMPAK 2

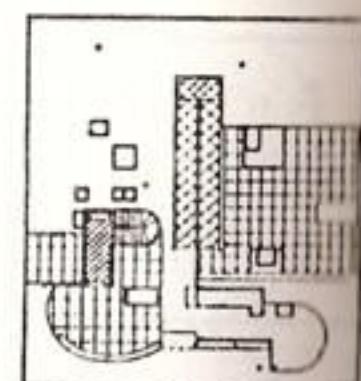
TAMPAK 3



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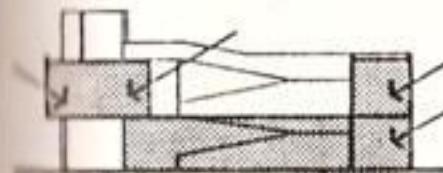


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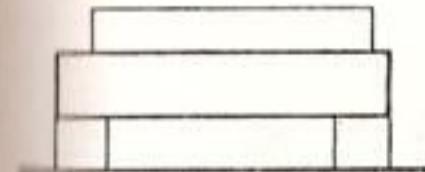


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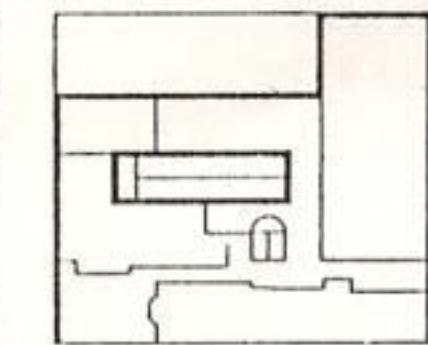
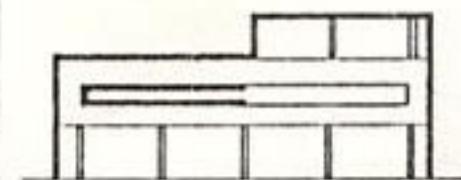
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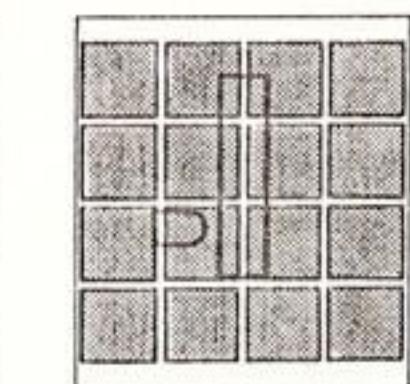
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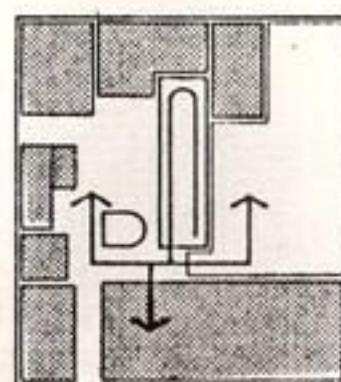
FMBENTUKAN MASSA



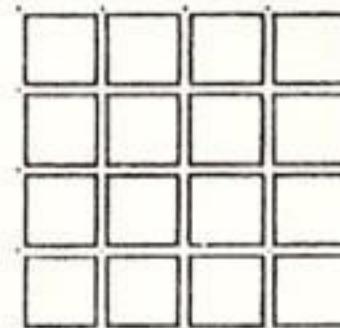
DENAH KE POTONGAN



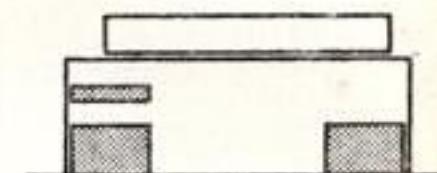
PERULANGAN KE UNIK



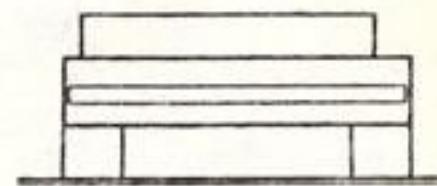
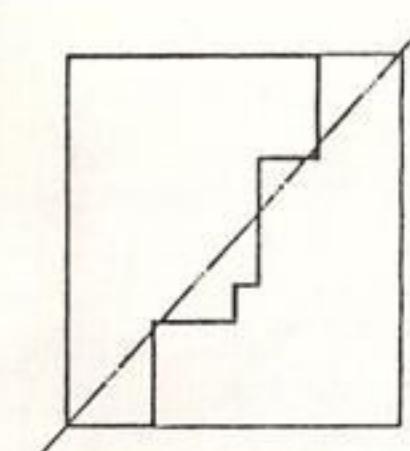
SIRKULASI KE RUANG-PAKAI



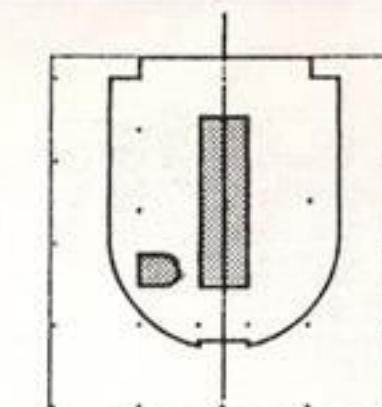
UNIT KE KESELURUHAN



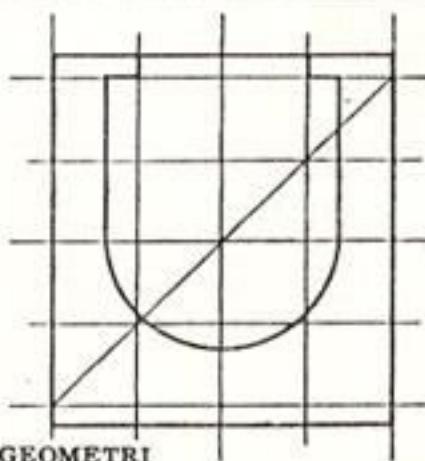
PENAMBAHAN
DAN PENGURANGAN



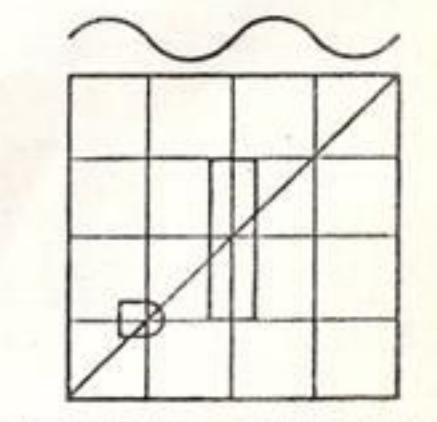
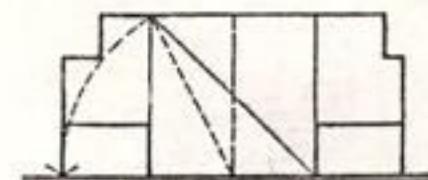
HIERARKI



SIMETRI DAN KESEIMBANGAN



GEOMETRI



SKEMA