

Architecture, Design and Materials Spring 05
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Project 1 Materials Exploration
Relationship of Form, Space and Material – Geometry, Structure, Surface

Determine the basic quality or nature of your attitude towards your material(s)

Create a diagram, axonometric and/or sectional sketches AND sketch model(s) expressing relationship between your form and material.

Principle of construction system, i.e.:

Grid / Post and Beam

structure independent of skin; uniformity of system
Mies, Villa Savoye

Mass

singularity of structure and surface
Kahn, La Tourette-hybrid of grid and mass

Net

integration of structure and skin;
Gehry

Frame

layered and/or tensile system; hybrid of net and grid
Coop Himmelblau, Sydney Opera House

Focus on the following aspects:

Relationship of geometry of your form to material

Relationship of structural system to material

Relationship of building surfaces or skins to each other

Hierarchy of structure and surface

How is the architecture perceived from different scales of distance