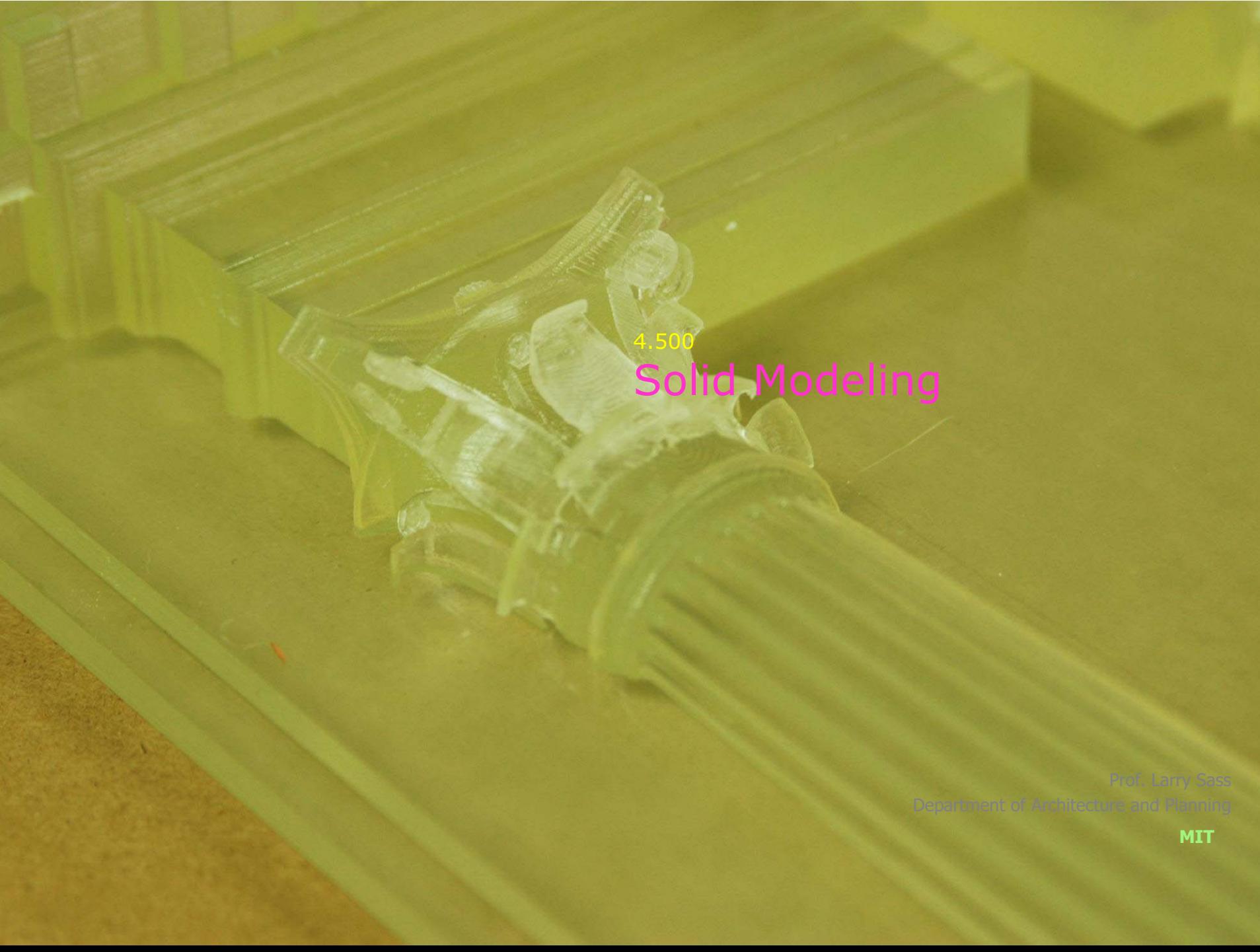


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4.500 Introduction to Design Computing  
Fall 2008

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4.500

# Solid Modeling

Prof. Larry Sass  
Department of Architecture and Planning

MIT



## Lecture 2

[1] Computer Modeling

[2] Solid Modeling Operations

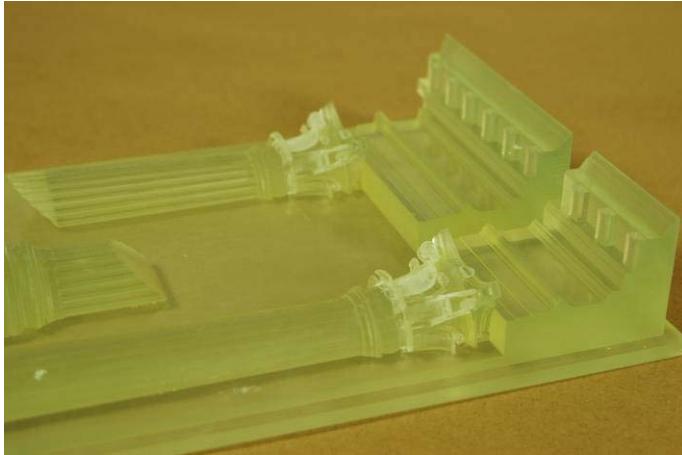
[3] Background

[4] Modeling Functions

[5] Homework

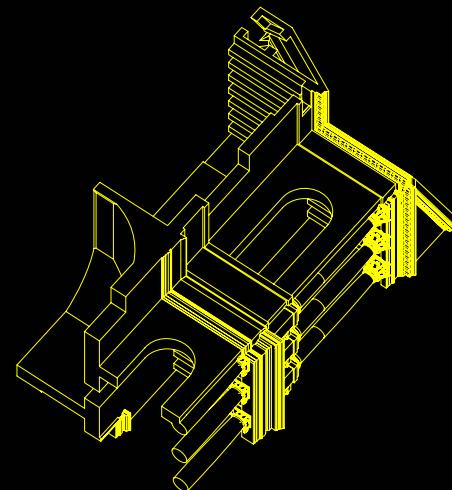
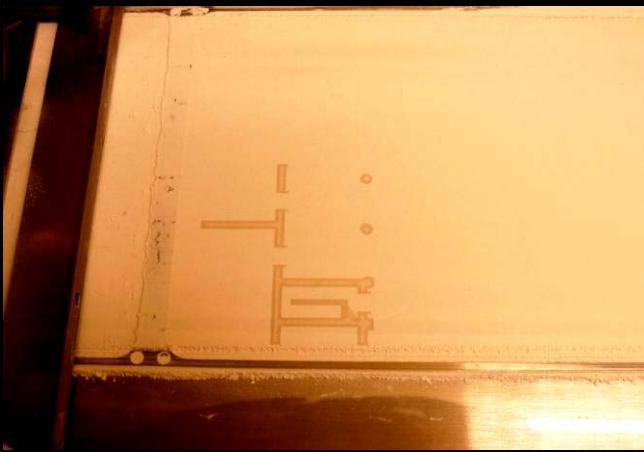
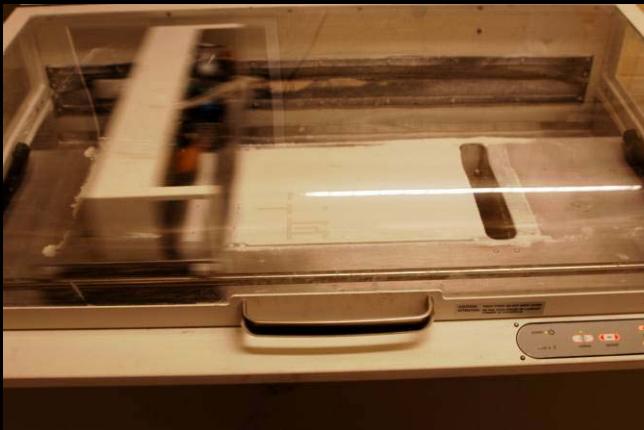
# [1] Modeling

# Solid Modeling



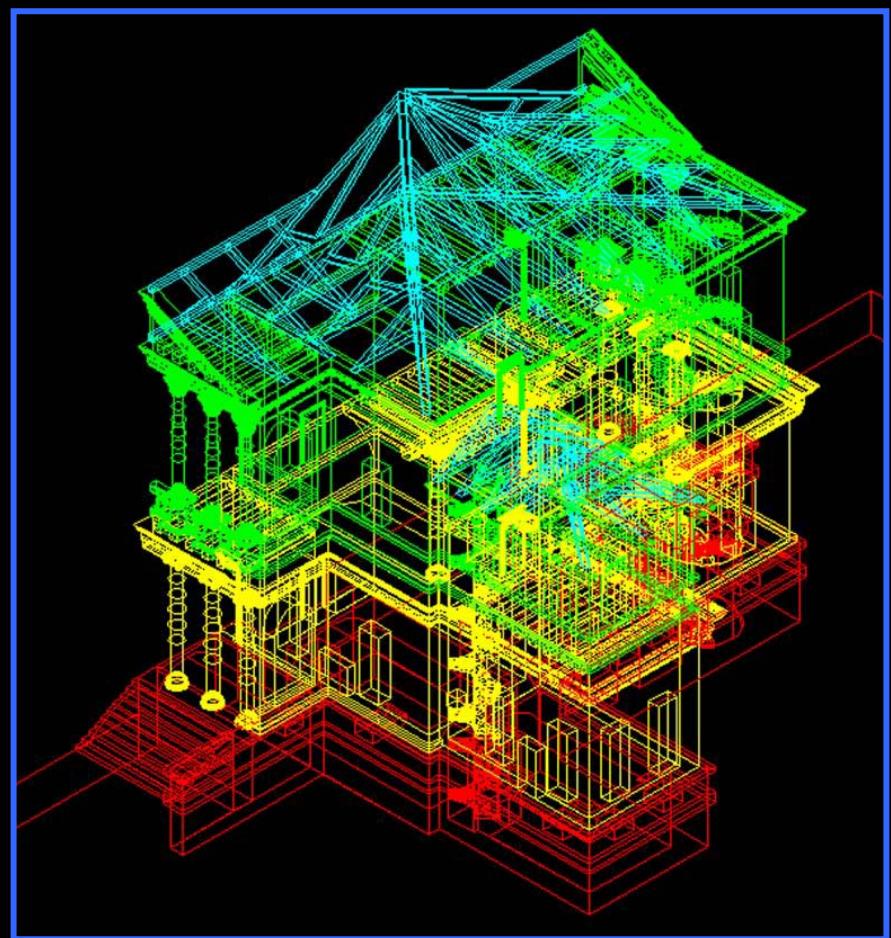
- Stereo Lithography
- 3D Printing
- FDM Printing

# 3d Printing

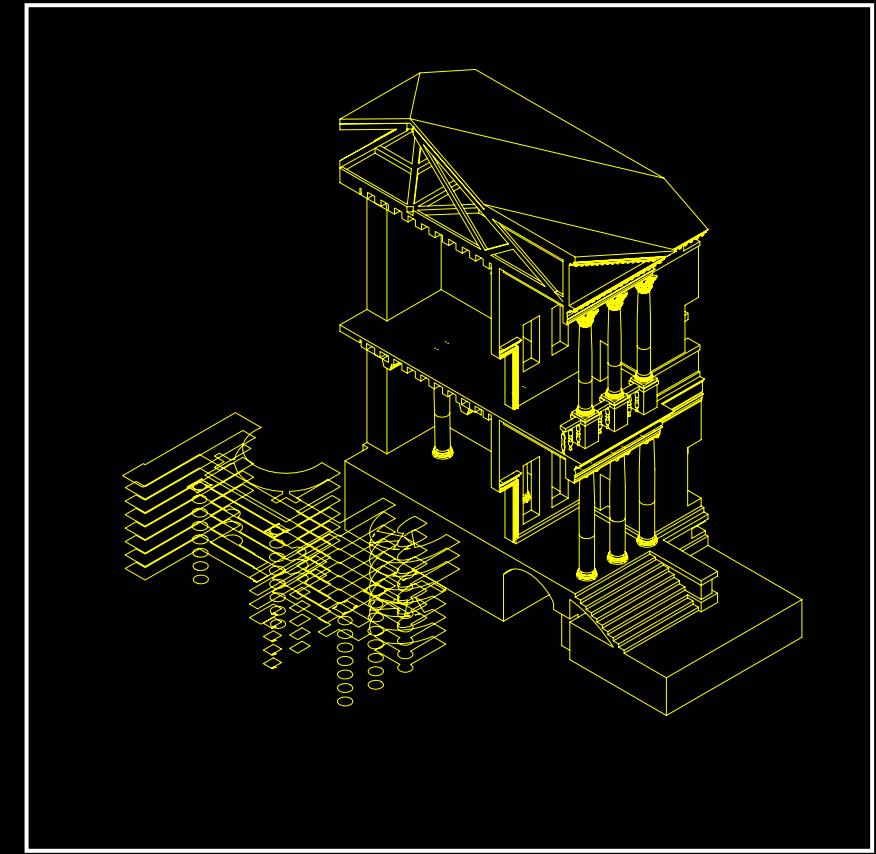
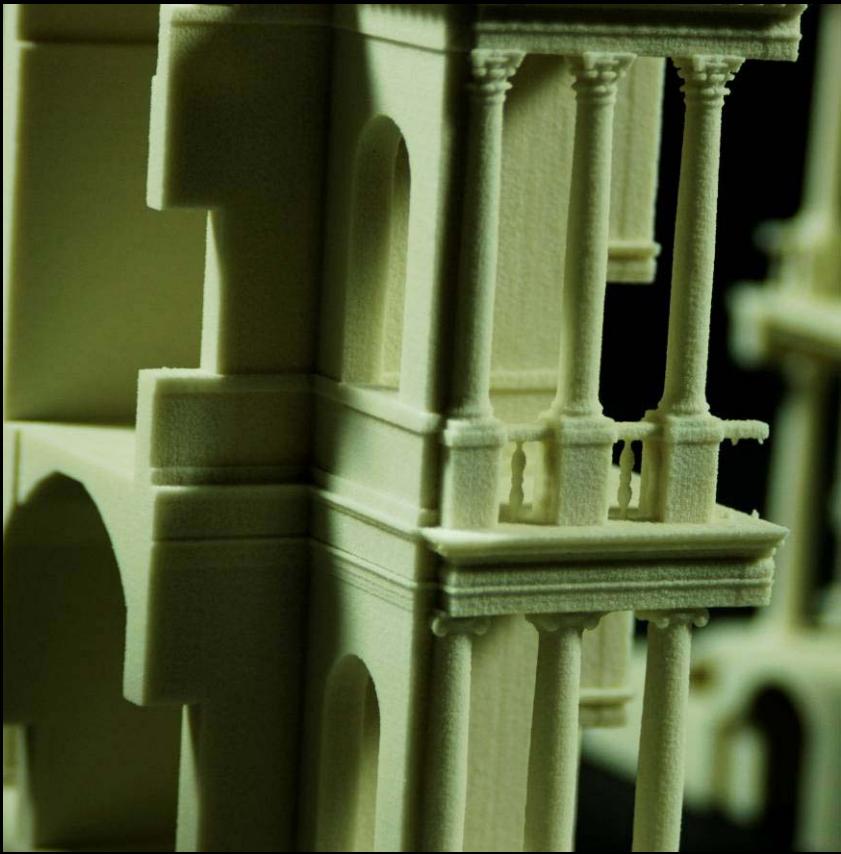


# Types of Solid Models

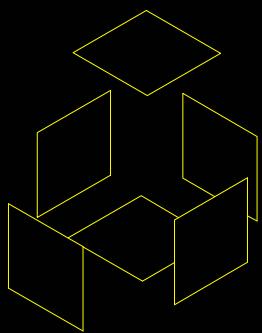
- Solid Models
- Surface Models



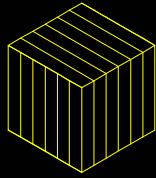
# Types of Solid Models



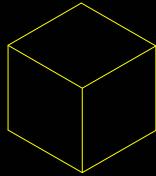
## Types of Representation



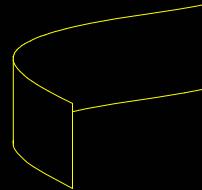
Surface Models



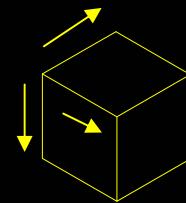
Ruled Surface



Solid Modeling

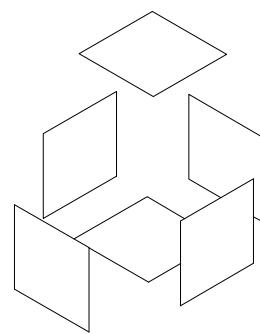


NURB Surface  
Modeling

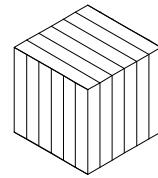


Parametric  
Modeling

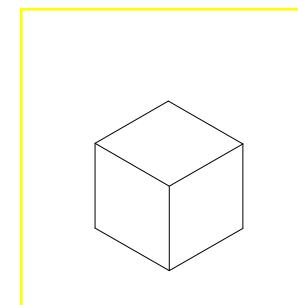
## Types of Representation



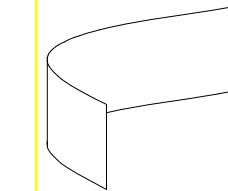
Surface Models



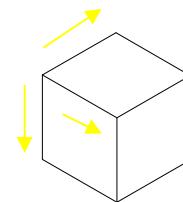
Ruled Surface



Solid Modeling



NURB Surface  
Modeling



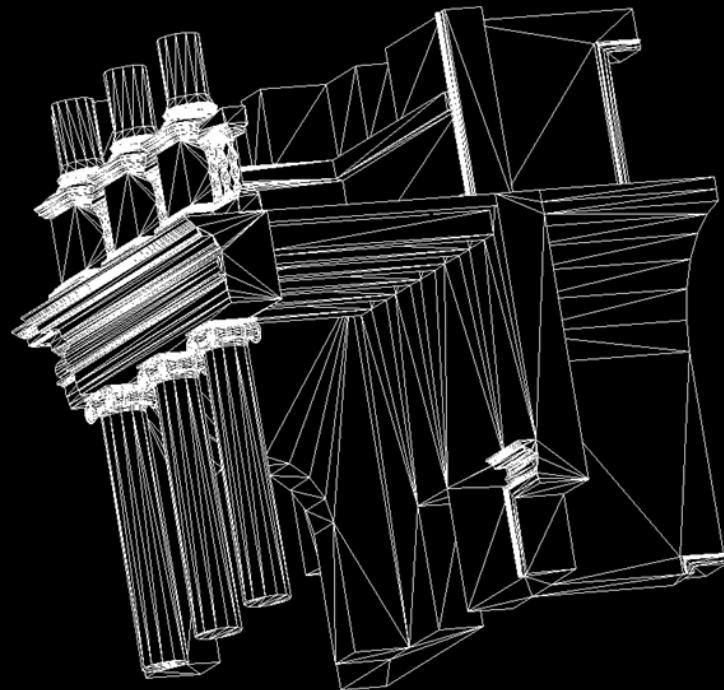
Parametric  
Modeling

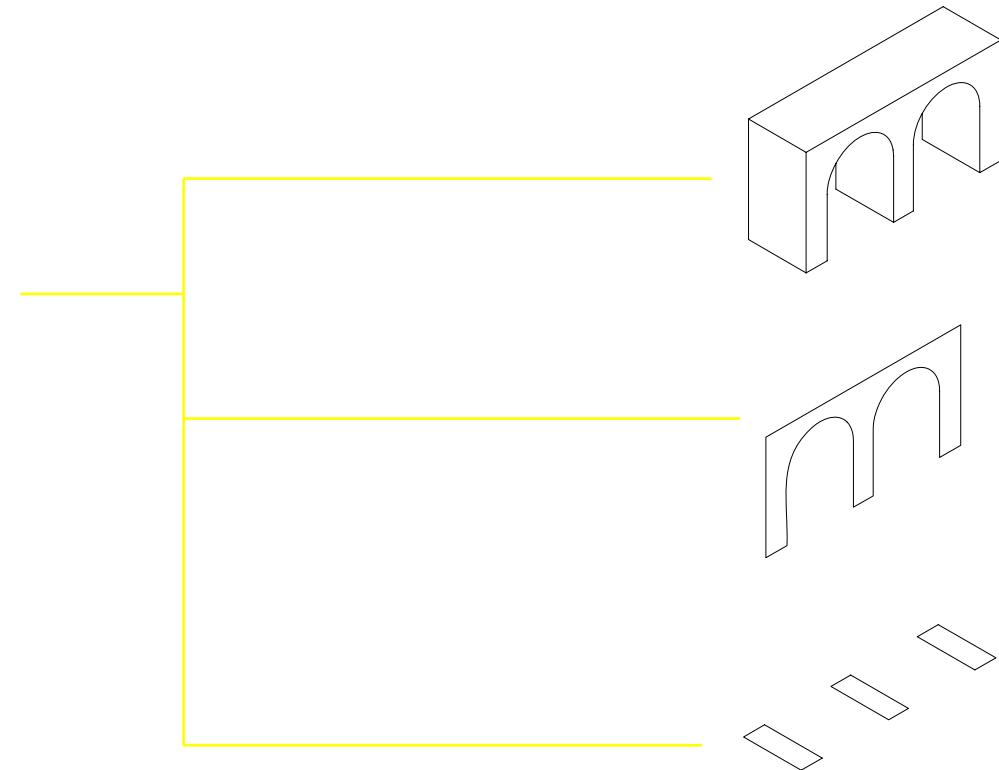
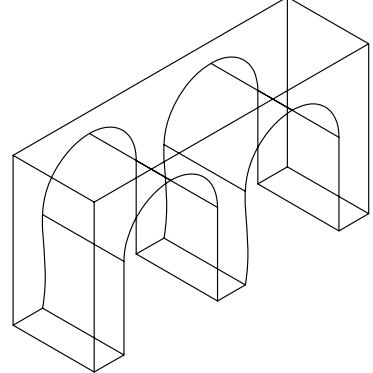
[2]  
Solid Modeling

Surface Modeling



Solid Modeling





# [3] Background

## History of Solid Modeling

- Computer Models were used in Architectural Research in – 1980s
- Computer Models used to create renderings – 1990s
- Computer Models will be used as the building source – 2000 – 2015

# [4]

## Modeling Functions