

**Brief Chapter Outline:**

- The Experience of Architecture
- A Social Art
- Vitruvius
- Proportions
- Traditional Materials and Construction Techniques
- Solid Wall Construction
- Post-and-Lintel System
- The Classical Orders
- Arches and Vaults
- Modern Architectural Techniques
- Steel Cage and Curtain Wall Construction
- Reinforced Concrete
- Cantilevering
- Suspension
- Computer Aided Planning
- Urban Environment
- The Automobile and American Cities
- Suburban Housing
- Historic Preservation

**Key Terms**

- aisles
- adaptive reuse
- ambulatory apse
- arches balloon frame
- barrel vault bays
- buttresses cantilevering
- capital centering
- choir clerestory
- Corinthian order cross vault
- crossing curtain walls
- dome Doric order
- entablature firmitas
- frieze groin vault
- historic preservation Ionic order
- keystone modulator
- nave pendentives
- post and beam system post and lintel system
- solid wall construction steel cage construction
- suspension transept
- triglyphs trusses
- tunnel vault urban planning
- utilitas venustas

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Chartres Cathedral,  
[French] interior looking east, begun 1194



Pyramid of the Sun, Teotihuacán,  
Mexico ca. 100 BCE–500 CE.  
Pyramids of the Ciudadela in foreground



Joseph Paxton, Crystal Palace, 1851



Temple of Athena Nike,  
427–424 BCE, [Greek]



Dankmar Adler & Louis Sullivan,  
Wainwright Building, 1890–1891, St. Louis



Le Corbusier, Notre Dame-du-Haut, France

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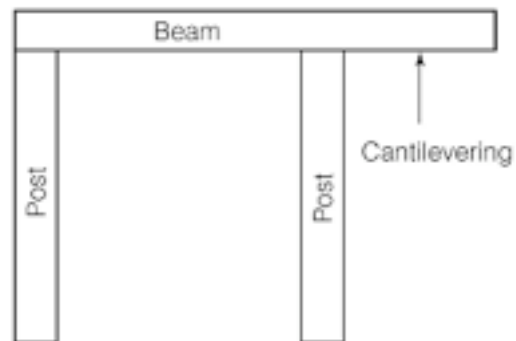
Cass Gilbert, Supreme Court Building, 1932-1935



Roman Basilica of Constantine, begun by Maxentius in 307-312, completed by Constantine after 312. Rome



Philip Johnson & John Burgee, Pennzoil Plaza, 1970-1976



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