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### Chapter 47: Theory and Analysis of Structures

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Synopsis This textbook aims to encompass the full range of material covered in undergraduate courses in Structures in departments of Civil and Mechanical Engineering. The approach taken integrates a qualitative approach looking at the physical reality of phenomena with a quantitative approach one that models the physical reality mathematically.

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theory of structures introduction A structure (from the Latin struere) is anything built: say an arched bridge or cathedral from stone; a ship or a roof (and perhaps a spire) from timber; an earth dam or an excavation in soil for a fortification; or (as isolated usages) iron bars (in China first) or vegetable ropes to form suspension chains in bridges.

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### Structures Theory And Analysis M S Williams And J D Todd

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