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- Chapter 6: Model analysis
  - the properties of mass participations, properties of modes
- Chapter 7: Model analysis - more separation
- Chapter 8: Model analysis - axi-symmetric structures
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• Chapter 7 : Flow across a Tube Bank
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• Chapter 9 : Ball Valve
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• Chapter 7 : Hot Plate
• Chapter 8 : Thermal and thermal stress analysis of a coffee mug
• Chapter 9 : Thermal and thermal stress analysis of a link
• Chapter 10 : Thermal analysis of a heat sink
• Chapter 11 : Radiative power of black body
• Chapter 12 : Radiation of a hemisphere
• Chapter 13 : Radiation between two bodies
• Chapter 14 : Heat transfer with internal fluid flow
• Chapter 15 : Heat transfer with external fluid flow
• Chapter 16 : Radiative Heat Transfer
• Chapter 17 : NAFEMS Benchmarks
• Chapter 18 : Summary and miscellaneous topics
• Chapter 19 : Glossary of terms
• Chapter 20 : References
• Chapter 21 : List of exercises