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complementary energy; 5.3 Application to deflection problems; 5.4 Application to the solution of statically indeterminate systems; 5.5 Unit load method; 5.6 Flexibility method

5.7 Total potential energy5.8 The principle of the stationary value of the total potential energy; 5.9 Principle of superposition; 5.10 The reciprocal theorem; 5.11 Temperature effects; References; Further reading; Problems; Chapter 6 Matrix methods; 6.1 Notation; 6.2 Stiffness matrix for an elastic spring; 6.3 Stiffness matrix for two elastic springs in line; 6.4 Matrix analysis of pin-jointed frameworks; 6.5 Application to statically indeterminate frameworks; 6.6 Matrix analysis of space frames; 6.7 Stiffness matrix for a uniform beam; 6.8 Finite element method for continuum structures

ReferencesFurther reading; Problems; Section A3 Thin Plate Theory; Chapter 7 Bending of thin plates; 7.1 Pure bending of thin plates; 7.2 Plates subjected to bending and twisting; 7.3 Plates subjected to a distributed transverse load; 7.4 Combined bending and in-plane loading of a thin rectangular plate; 7.5 Bending of thin plates having a small initial curvature; 7.6 Energy method for the bending of thin plates; References; Problems; Section A4 Structural Instability; Chapter 8 Columns; 8.1 Euler buckling of columns; 8.2 Inelastic buckling; 8.3 Effect of initial imperfections

8.4 Stability of beams under transverse and axial loads

Sommario/riassunto	Aircraft Structures for Engineering Students is the leading self contained aircraft structures course text. It covers all fundamental subjects, including elasticity, structural analysis, airworthiness and aeroelasticity. Now in its fourth edition, the author has revised and updated the text throughout and added new case study and worked example material to make the text even more accessible. Includes a Solutions Manual available to all adopting teachers.*The leading Aircraft Structures text, covering a complete course from basic structural mechanics to finite element analysis<br