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and Resolving Concurrent Forces; 7.3 Familiar Examples of Concurrent Forces; CHAPTER 8 Supports, Reactions, and Restraint of Movement; 8.1 Roller and Frictionless-Surface Supports; 8.2 Pinned Supports; 8.3 Fixed Supports; 8.4 Hanger Supports; 8.5 Familiar Examples of Support Conditions; 8.6 Stable or Unstable?
CHAPTER 9 Load Distribution 9.1 Point Loads; 9.2 Distributed Loads; 9.3 Equivalent Point Loads; 9.4 Uniformly Distributed Loads; 9.5 Non-Uniformly Distributed Loads; CHAPTER 10 Introduction to Beams; 10.1 Beam Types; 10.2 Predicting Deformation, Deflection, and Beam Behavior; 10.3 Statically Determinate and Statically Indeterminate Beams; 10.4 Other Considerations for Beams; CHAPTER 11 Framing Systems and Load Tributary Areas; 11.1 One-Way Systems; 11.2 Two-Way Slab and Beam Systems; 11.3 Two-Way Slab/Two-Way Joist Systems; CHAPTER 12 Shear and Moment Diagrams for Beams; 12.1 Sign Conventions
12.2 Typical Shear and Moment Diagrams 12.3 Creating Shear and Moment Diagrams; 12.4 Comparing V and M for Uniformly Distributed Versus Concentrated Loading; 12.5 Summary of Deformation, Shear, and Moment Relationships; CHAPTER 13 Stress, Strain, and Properties of Materials; 13.1 Stress; 13.2 Strain; 13.3 Stress versus Strain; 13.4 Properties of Materials; 13.5 Stress Distribution Diagrams; CHAPTER 14 Introduction to Columns; 14.1 Columns, Compression, and Bending; 14.2 Column Loading; 14.3 Column Compression; 14.4 Column Bending; 14.5 Leonhard Euler and Column Buckling
CHAPTER 15 Frames, Rigidity, and Lateral Resistance Systems 15.1 Triangular Frames; 15.2 Rectangular Frames; 15.3 Making Rectangular Frames Rigid; 15.4 Lateral Resistance Systems; CHAPTER 16 Introduction to Trusses; 16.1 Introduction; 16.2 Trusses as Beams; 16.3 Types of Trusses; 16.4 Design Considerations; 16.5 Truss Joints; 16.6 Truss Loading; 16.7 Truss Analysis; CHAPTER 17 Structural Walls; 17.1 Loads and Deformational Stresses; 17.2 Stresses and Wall Construction; 17.3 Retaining Walls; CHAPTER 18 Soils and Rock; 18.1 The Earth's Interior; 18.2 The Earth's Crust; 18.3 Natural Soils
18.4 Groundwater

Sommario/riassunto

An introduction to the concepts and principles of architectural structures in an easy-to-read format Written as an easy-to-understand primer on the topic, Structure for Architects engages readers through instruction that uses a highly visual format and real-world examples to underline the key facets of structural principles that are essential to the design process. Eschewing complicated mathematics and technical jargon, Structure for Architects demystifies the subject matter by showing it in the context of everyday situations, giving architects and architectural technologists

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