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<<材料力学>>

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内容概要

《材料力学(英文版)(原书第7版)》叙述简洁、插图清晰、精美。
第7版更新了习题，渗透了作者在该领域的新思想，更为精炼。
更加可读。
《材料力学(英文版)(原书第7版)》融汇、贯通了著名力学家和教育家铁摩辛柯(S．P．Timoshenko)的力学教育理念，有利于初学者从个别到一般，由感性到理性地把握该门课程。
该书共12章，内容包括拉伸、压缩和剪切，轴向载荷构件，扭转变形，剪切力和弯矩，梁的应力，应力和应变分析，水平应力应用，梁的挠度，超静定梁，柱。
矩心和转动惯量等，供读者阅读参考。

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<<材料力学>>

书籍目录

Contents
Preface
1.Tension，Compression，and Shear
1.1 Introduction to Mechanics of Materials
1.2 Normal Stress and Strain
1.3 Mechanical Properties of Materials
1.4 Elasticity，Plasticity，and Creep
1.5 Linear Elasticity.Hooke'S Law.and Poisson'S Ratio 1
1.6 Shear Stress and Strain
1.7 Allowable Stresses and Allowable Loads
1.8 Design for Axial Loads and Direct Shear
Problems
2. Axially Loaded Members
2.1 IntroductiOn
2.2 Changes in Lengths of Axially Loaded Members
2.3 Changes in Lengths under Nonuniform Conditions
2.4 Statically Indeterminate Structures
2.5 Thermal Effects.Misfits.and PrestrairlS
2.6 Stresses on Inclined Sections
2.7 Strain Energy
2.8 Impact Loading
2.9 Repeated Loading and Fatigue
2.10 Stress Concentrations
2.11 Nonlinear Behavior
2.12 Elastoplastic Analysis
Problems
3.TOrsion
3.1 IntrOductiOn
3.2 TDrsional Deformations of a Circular Bar
3.3 Circular Bars of Linearly Elastic Materials
3.4 Nonuniform Torsion
3.5 Stresses and Strains in Pure Shear
3.6 Relationship Between Moduli of Elasticity E and G
3.7 Transmission of Power bv Circular ShaftS
3.8 Statically Indeterminate Torsional Members
3.9 Strain Energy in Torsion and Pure Shear
3.10 Thin-Walled Tubes
3.11 Stress COncentrations in Torsion
Problems
4.Shear FoFees and Bending Moments
4.1 Introduction
4.2 Types of Beams.LoadS.and Reactions
4.3 Shear Forces and Bending Moments
4.4 Relationships Between Loads.Shear Forces.and Bending Moments
4.5 Shear-Force and Bending-Moment Diagrams

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Problems
5.Stresses in Bcams（Basic Topics）
5.1 InLroduction
5.2 Pure Bending and Nonuniform Bending
5.3 Curvature of a Beam
5.4 Longitudinal Strains in Bearns
5.5 Normal Stresses in Beams fLinearly Elastic Materialsl
5.6 Design of Beams for Bending Stresses
5.7 Nonprismatic Beams
5.8 Shear Stresses in Bcams of Rectangular Cross Section
5.9 Shear Stresses in Beams of Circular Cross Section
5.10 Shear Stresses in the Webs 0f Bearns with Flanges
5.11 Built-UP Beams and Shear Flow
5.12 Beams with Axial Loads
5.13 Stress Concentrations in Bending
Problems
6. Stresses in Bcams（Advanced Topics）
6.1 IntrOduction
6.2 Composite Beams
6.3 Transformed-Section Method
6.4 Doubly Symmetric Beams with Inclined Loads
6.5 Bending Of Unsymmetric Beams
6.6 The Shear-Center Concept 3
6.7 Shear Stresses in Bearns of Thin-Walied Open Cross Sections
6.8 Shear Stresses in Wide.Flange Bcams
6.9 Shear Centers of Thin-Wlied Open Sections
6.10 Elastoplastic Bending
Problems
7.Analysis of Stress and Strain
7.1 Introduction
7.2 Plane Stress
7.3 Principal Stresses and Maximum Shear Stresses
7.4 Mohr'S Circle for Plane Stress
7.5 Hooke'S Law for Plane Stress
7.6 Triaxial Stress
7.7 Plane Strain
Problems
8.Applications of Plane Stress（Pressure Vessels， Beams， and Combined Loadings）
8.1 Introduction
8.2 Spherical Pressure Vessels
8.3 Cylindrical Pressure Vessels
8.4 Maximum Stresses in Beams
8.5 Combined Loadings
Problems
9.Deflections of Bearns
9.1 Introduction

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9.2 Differential Equations of the Deflection Curve
9.3 Deflections by Integration of the Bending-Moment Equation
9.4 Deflections by Integration of the Shear-Force and Load Equations
9.5 Method of Superposition
9.6 Moment-Area Method
9.7 Nonprismatic Beams
9.8 Strain Energy of Bending
9.9 Castigliano'S Theorem
9.10 Deflections Produced by Impact
9.11 Temperature Effects
Problems
10.Statically Indeterminate Beams
10.1 Introduction
10.2 Types of Statically Indeterminate Beams
10.3 Analysis by the Differential Equations of the Deflection Curve
10.4 Method of Superposition
10.5 Temperature Efiects
10.6 Longitudinal Displacements at the Ends of a Beam
Problems
11.Columns
11.1 Introduction
11.2 Buckling and Stability
11.3 Columns with Pinned Ends
11.4 Columns with Other Support Conditions
11.5 Columns with Eccentric Axial Loads
11.6 The Secant Formula for Columns
11.7 Elastic and Inelastic Column Behavior
11.8 Inelastic Buckling
Problems
12.Review of Centroids and Moments of Inertia
12.1 Introduction
12.2 Centroids of Plane Areas
12.3 Centroids of Composite Ateas
12.4 Moments of Inertia of Plane Areas
12.5 Parallel-Axis Theorem for Moments of Inertia
12.6 Polar Moments of Inertia
12.7 Products of Inertia
12.8 Rotation of Axes
12.9 Principal Axes and Principal Moments of Inertia
Problems
References and Historical Notes
Appendix A：Systems of Units and Conversion Factors
Appendix B：Problem Solving
Appendix C：Mathematical Formulas
Appendix D：Properties of Plane Areas

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Appendix E：Properties of Structural-Steel Shapes
Appendix F：Properties of Solid Timber
Appendix G：Deflections and Slopes of Beams
Appendix H：Properties of Materials
Answers to Problems
Index

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章节摘录

版权页：插图：Measurement systems have been a necessity since people first began to build and barter, and everyancient culture developed some sort of measurement system to serve its needs. Standardization ofunits took place gradually over the centuries, often through royal edicts. Development of the BritishImperial System from earlier measurement standards began in the 13th century and was well estab-lished by the 18th century. The British system spread to many parts of the world, including the UnitedStates, through commerce and colonization. In the United States the system gradually evolved into theU.S. Customary System （USCS） that is in common use today.The concept of the metric system originated in France about 300 years ago and was formalized inthe 1790s, at the time of the French Revolution. France mandated the use of the metric system in 1840,and since then many other countries have done the same. In 1866 the United States Congress legalizedthe metric system without making it compulsory.A new system of units was created when the metric system underwent a major revision in the1950s. Officially adopted in 1960 and named the International System of Units （Systeme Interna-tional d'Unites）, this newer system is commonly referred to as SI. Although some SI units are thesame as in the old metric system, SI has many new features and simplifications. Thus, SI is animproved metric system.Length, time, mass, and force are the basic concepts of mechanics for which units of measurementare needed. However, only three of these quantities are independent since all four of them are relatedby Newton's second law of motion.

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