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science. Completely revised and updated, this second edition describes the fundamental science needed to classify and choose materials based on the limitations of their properties in terms of temperature, strength, ductility, corrosion, and physical behavior. The authors emphasize materials processing, selection, and property measurement methods, and take a comparative look at the mechanical properties of various classes of materials. Chapters include discussions of atomic structure and bonds, imperfections in crystalline materials, ceramics, polymers, composites, electronic materials, environmental degradation, materials selection, optical materials, and semiconductor processing. Filled with case studies to bring industrial applications into perspective with the material being discussed, the text also includes a pictorial approach to illustrate the fabrication of a composite. Consolidating relevant topics into a logical teaching sequence, Introduction to Engineering Materials, Second Edition provides a concise source of useful information that can be easily translated to the working environment and prepares the new engineer to make educated materials selections in future industrial applications.

Mechanics of Materials, Second Edition, Volume 2 presents discussions and worked examples of the behavior of solid bodies under load. The book covers the components and their respective mechanical behavior. The coverage of the text includes components such as cylinders, struts, and diaphragms. The book covers the methods for analyzing experimental stress; torsion of non-circular and thin-walled sections; and strains beyond the elastic limit. Fatigue, creep, and fracture are also discussed. The text will be of great use to undergraduate and practitioners of various engineering branches, such as materials engineering and structural engineering.

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CD-ROM contains: Dynamic phase diagram tool -- Over 30 animations of concepts from the text -- Photomicrographs from the text.

In *Mechanical Testing of Engineering Materials* students learn how to perform specific mechanical tests of engineering materials, produce comprehensive reports of their findings, and solve a variety of materials problems. The book features engaging, instructive experiments on topics such as the modification of material microstructure through heat treatment, hardness measurement and the interpretation of hardness data, and the extraction of elastic and plastic material properties of different materials from uniaxial monotonic and cyclic loading experiments. Students also learn about the mechanical behavior of viscoelastic materials, wear testing, and how to correlate measured fatigue properties to microstructure characteristics. This latest edition of *Mechanical Testing of Engineering Materials* includes illustrative examples, important formulae, practice problems and their solutions, and updated experiments with representative results. In addition, each chapter features a question set which can be used for laboratory assignments. Based on the requirements for undergraduate courses in the discipline, the book is ideal for classes on the mechanical behavior of materials.

This book balances introduction to the basic concepts of the mechanical behavior of composite materials and laminated composite structures. It covers topics from micromechanics and macromechanics to lamination theory and plate bending, buckling, and vibration, clarifying the physical significance of composite materials. In addition to the materials covered in the first edition, this book includes more theory-experiment comparisons and updated information on the design of composite materials.

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Employing a technological rather than scientific approach, this edition continues to provide a descriptive and quantitative treatment of materials science for engineers.

One of the most important subjects for any student of engineering or materials to master is the behaviour of materials and structures under load. The way in which they react to applied forces, the deflections resulting and the stresses and strains set up in the bodies concerned are all vital considerations when designing a mechanical component such that it will not fail under predicted load during its service lifetime. Building upon the fundamentals established in the introductory volume *Mechanics of Materials 1*, this book extends the scope of material covered into more complex areas such as unsymmetrical bending, loading and deflection of struts, rings, discs, cylinders plates, diaphragms and thin walled sections. There is a new treatment of the Finite Element Method of analysis, and more advanced topics such as contact and residual stresses, stress concentrations, fatigue, creep and fracture are also covered. Each chapter contains a summary of the essential formulae which are developed in the chapter, and a large number of worked examples which progress in level of difficulty as the principles are enlarged upon. In addition, each chapter concludes with an extensive selection of problems for solution by the student, mostly examination questions from professional and academic bodies, which are graded according to difficulty and furnished with answers at the end.

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