

Hibbeler Structural Analysis 8th Edition Si

Environmental Engineering Examples in Structural Analysis, Second Edition Structural Concrete Marine Structural Design Calculations Fundamentals of Structural Analysis Elementary Structural Analysis Integrated Science Structural Engineer's Pocket Book Structural Analysis Engineering Mechanics Essentials of the Finite Element Method Introductory Chemistry: An Atoms First Approach Engineering Mechanics Structural Dynamics Structure and Interpretation of Signals and Systems Structural Analysis Engineering and Chemical Thermodynamics The Design Life of Structures Structural Analysis-I, 4th Edition Matrix Analysis of Structures Structural Analysis-II, 4th Edition Structural Analysis Structural Analysis Structural Design for the Stage Fluid Mechanics in SI Units Structural Mechanics Mechanics of Materials Structural Analysis Structural Timber Design to Eurocode 5 Matrix Methods of Structural Analysis Principles and Applications of Electrical Engineering Heat Transfer Calculations Mechanics of Materials Structural Analysis Structural Analysis The Finite Element Method in Engineering Structural Analysis Theory of Nonlinear Structural Analysis Statics and Mechanics of Materials

Environmental Engineering

The use of COSMOS for the analysis and solution of structural dynamics problems is introduced in this new edition. The COSMOS program was selected from among the various professional programs available because it has the capability of solving complex problems in structures, as well as in other engineering fields such as Heat Transfer, Fluid Flow, and Electromagnetic Phenomena. COSMOS includes routines for Structural Analysis, Static, or Dynamics with linear or nonlinear behavior (material nonlinearity or large displacements), and can be used most efficiently in the microcomputer. The larger version of COSMOS has the capacity for the analysis of structures modeled up to 64,000 nodes. This fourth edition uses an introductory version that has a capability limited to 50 nodes or 50 elements. This version is included in the supplement, STRUCTURAL DYNAMICS USING COSMOS 1. The sets of educational programs in Structural Dynamics and Earthquake Engineering that accompanied the third edition have now been extended and updated. These sets include programs to determine the response in the time or frequency domain using the FFT (Fast Fourier Transform) of structures modeled as a single oscillator. Also included is a program to determine the response of an inelastic system with elastoplastic behavior and a program for the development of seismic response spectral charts. A set of seven computer programs is included for modeling structures as two-dimensional and three dimensional frames and trusses.

Examples in Structural Analysis, Second Edition

This second edition of Examples in Structural Analysis uses a step-by-step approach and provides an extensive collection of

fully worked and graded examples for a wide variety of structural analysis problems. It presents detailed information on the methods of solutions to problems and the results obtained. Also given within the text is a summary of each of the principal analysis techniques inherent in the design process and where appropriate, an explanation of the mathematical models used. The text emphasises that software should only be used if designers have the appropriate knowledge and understanding of the mathematical modelling, assumptions and limitations inherent in the programs they use. It establishes the use of hand-methods for obtaining approximate solutions during preliminary design and an independent check on the answers obtained from computer analyses. What's New in the Second Edition: New chapters cover the development and use of influence lines for determinate and indeterminate beams, as well as the use of approximate analyses for indeterminate pin-jointed and rigid-jointed plane-frames. This edition includes a rewrite of the chapter on buckling instability, expands on beams and on the use of the unit load method applied to singly redundant frames. The x-y-z coordinate system and symbols have been modified to reflect the conventions adopted in the structural Eurocodes. William M. C. McKenzie is also the author of six design textbooks relating to the British Standards and the Eurocodes for structural design and one structural analysis textbook. As a member of the Institute of Physics, he is both a chartered engineer and a chartered physicist and has been involved in consultancy, research and teaching for more than 35 years.

Structural Concrete

This book takes a fresh, student-oriented approach to teaching the material covered in the senior- and first-year graduate-level matrix structural analysis course. Unlike traditional texts for this course that are difficult to read, Kassimali takes special care to provide understandable and exceptionally clear explanations of concepts, step-by-step procedures for analysis, flowcharts, and interesting and modern examples, producing a technically and mathematically accurate presentation of the subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Marine Structural Design Calculations

Structural Mechanics: Modelling and Analysis of Frames and Trusses is a textbook covering the fundamental theory of structural mechanics and the modelling and analysis of frame and truss structures. Based on the finite element method, it makes the methodology suitable for computer simulations and provides students with the tools for their own computational modelling and numerical exploration of frames and trusses. It presents methods for assembling elements into complex load bearing structures, and also addresses other areas of applied mechanics, including thermal conduction and electrical flow. Structural Mechanics: Modelling and Analysis of Frames and Trusses includes exercises and solutions, and is an ideal textbook for undergraduate courses on structural mechanics and analysis.

Fundamentals of Structural Analysis

The book provides a balanced coverage of concepts, basic definitions, and analytical techniques in the field of structural analysis. Starting with the coverage of basic topics such as loads and forms of structures, analysis and deflection of simple beams, and strain energy theorems, it discusses specific analysis methods for statically indeterminate structures, such as slope deflection, moment distribution, and Kani's methods. It also discusses certain advanced topics such as finite element method, plastic analysis of structures, and beams on elastic foundation. The text is user-friendly with a large number of worked-out examples and problems to encourage the reader towards independent problem solving. Undergraduate students of engineering and AMIE as well as practising professionals would find this book extremely useful for its exhaustive coverage of analysis techniques.

Elementary Structural Analysis

This book provides students with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames. Emphases are placed on teaching readers to both model and analyze a structure. A hallmark of the book, "Procedures for Analysis," has been retained in this edition to provide learners with a logical, orderly method to follow when applying theory. Chapter topics include types of structures and loads, analysis of statically determinate structures, analysis of statically determinate trusses, internal loadings developed in structural members, cables and arches, influence lines for statically determinate structures, approximate analysis of statically indeterminate structures, deflections, analysis of statically indeterminate structures by the force method, displacement method of analysis: slope-deflection equations, displacement method of analysis: moment distribution, analysis of beams and frames consisting of nonprismatic members, truss analysis using the stiffness method, beam analysis using the stiffness method, and plane frame analysis using the stiffness method. For individuals planning for a career as structural engineers.

Integrated Science

This second edition of The Finite Element Method in Engineering reflects the new and current developments in this area, whilst maintaining the format of the first edition. It provides an introduction and exploration into the various aspects of the finite element method (FEM) as applied to the solution of problems in engineering. The first chapter provides a general overview of FEM, giving the historical background, a description of FEM and a comparison of FEM with other problem solving methods. The following chapters provide details on the procedure for deriving and solving FEM equations and the application of FEM to various areas of engineering, including solid and structural mechanics, heat transfer and fluid mechanics. By commencing each chapter with an introduction and finishing with a set of problems, the author provides an

invaluable aid to explaining and understanding FEM, for both the student and the practising engineer.

Structural Engineer's Pocket Book

A comprehensive book focusing on the Force Analogy Method, a novel method for nonlinear dynamic analysis and simulation. This book focusses on the Force Analogy Method, a novel method for nonlinear dynamic analysis and simulation. A review of the current nonlinear analysis method for earthquake engineering will be summarized and explained. Additionally, how the force analogy method can be used in nonlinear static analysis will be discussed through several nonlinear static examples. The emphasis of this book is to extend and develop the force analogy method to performing dynamic analysis on structures under earthquake excitations, where the force analogy method is incorporated in the flexural element, axial element, shearing element and so on will be exhibited. Moreover, the geometric nonlinearity into nonlinear dynamic analysis algorithm based on the force analogy method is included. The application of the force analogy method in seismic design for buildings and structural control area is discussed and combined with practical engineering.

Structural Analysis

First published in 2013. Routledge is an imprint of Taylor & Francis, an informa company.

Engineering Mechanics

Essentials of the Finite Element Method

The whole area of durability, integrity and quality control of structures is starting to be taken very seriously by the construction industry. Central to this is the design life concept, which looks at the materials used, methods of construction, safety factors, maintenance and repair, and change of use, all from a holistic viewpoint. This new book

Introductory Chemistry: An Atoms First Approach

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Structural Analysis, 8e, provides readers with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames. Emphasis is placed on teaching readers to both model and analyze a structure. Procedures for Analysis, Hibbeler's problem solving methodologies, provides

readers with a logical, orderly method to follow when applying theory.

Engineering Mechanics

Structural Dynamics

For courses in Structural Analysis. This book provides students with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames. Emphasis is placed on teaching students to both model and analyze a structure. Procedures for Analysis, Hibbeler's problem solving methodologies, provides students with a logical, orderly method to follow when applying theory.

Structure and Interpretation of Signals and Systems

Structural Analysis

For introductory statics courses found in mechanical engineering, civil engineering, aeronautical engineering, and engineering mechanics departments. This 400 page paperback text contains all the topics and examples of the bestselling hardback text, and free access to Hibbeler's OneKey course where instructors select and post assignments. All this comes with significant savings for students! Hibbeler's course contains over 3,000 Statics and Dynamics problems instructors can personalize and post for student assignments. OneKey lets instructors edit the values in a problem, guaranteeing a fresh problem for the students, and then use MathCAD solutions worksheets to generate solutions for use in grading (and post for student review). Each problem also comes with optional student hints and an assignment guide. PHGradeAssist - Hibbeler's PHGradeassist course contains over 600 Statics and Dynamics problems an instructor can use to generate algorithmic homework. PHGA grades and tracks student answers and performance, and offers sample solutions as feedback. Students will also find a complete Activebook (cross referenced in hints) as well as a set of animations and simulations for use on-line. Professors will find complete support including Powerpoints, JPEGs, Active Learning Slides for CRS systems, Matlab/Mathcad support, and student Math Review Of course, the Hibbeler Principles book retains all it's core features that make it the most student friendly book on the market -- the most examples, 3D photorealistic artwork, Procedure for Analysis problem solving boxes, triple accuracy checking, photographs that teach, and a carefully-crafted, student centered design.

Engineering and Chemical Thermodynamics

Emphasizing a conceptual understanding of concrete design and analysis, this revised and updated edition builds the student's understanding by presenting design methods in an easy to understand manner supported with the use of numerous examples and problems. Written in intuitive, easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely updated to reflect the latest ACI 318-11 code.

The Design Life of Structures

ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. NOTE: Make sure to use the dashes shown on the Access Card Code when entering the code. Thorough coverage, a highly visual presentation, and increased problem solving from an author you trust. Mechanics of Materials clearly and thoroughly presents the theory and supports the application of essential mechanics of materials principles. Professor Hibbeler's concise writing style, countless examples, and stunning four-color photorealistic art program – all shaped by the comments and suggestions of hundreds of reviewers – help readers visualize and master difficult concepts. The Tenth Edition retains the hallmark features synonymous with the Hibbeler franchise, but has been enhanced with the most current information, a fresh new layout, added problem solving, and increased flexibility in the way topics are covered. This title is available with MasteringEngineering, an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Interactive, self-paced tutorials provide individualized coaching to help students stay on track. With a wide range of activities available, students can actively learn, understand, and retain even the most difficult concepts. The text and MasteringEngineering work together to guide students through engineering concepts with a multi-step approach to problems. 0134326059 / 9780134326054 Mechanics of Materials, Student Value Edition Plus MasteringEngineering with Pearson eText -- Access Card Package 10/e Package consists of: 0134321189 / 9780134321189 Mechanics of Materials, Student Value Edition 10/e 0134321286 / 9780134321288 MasteringEngineering with Pearson eText -- Standalone Access Card -- for Mechanics of Materials 10/e

Structural Analysis-I, 4th Edition

Matrix Analysis of Structures

Fundamental coverage, analytic mathematics, and up-to-date software applications are hard to find in a single text on the finite element method (FEM). Dimitrios Pavlou's *Essentials of the Finite Element Method: For Structural and Mechanical Engineers* makes the search easier by providing a comprehensive but concise text for those new to FEM, or just in need of a refresher on the essentials. *Essentials of the Finite Element Method* explains the basics of FEM, then relates these basics to a number of practical engineering applications. Specific topics covered include linear spring elements, bar elements, trusses, beams and frames, heat transfer, and structural dynamics. Throughout the text, readers are shown step-by-step detailed analyses for finite element equations development. The text also demonstrates how FEM is programmed, with examples in MATLAB, CALFEM, and ANSYS allowing readers to learn how to develop their own computer code. Suitable for everyone from first-time BSc/MSc students to practicing mechanical/structural engineers, *Essentials of the Finite Element Method* presents a complete reference text for the modern engineer. Provides complete and unified coverage of the fundamentals of finite element analysis Covers stiffness matrices for widely used elements in mechanical and civil engineering practice Offers detailed and integrated solutions of engineering examples and computer algorithms in ANSYS, CALFEM, and MATLAB

Structural Analysis-II, 4th Edition

Functions as a Day-to-Day Resource for Practicing Engineers The hugely useful *Structural Engineer's Pocket Book* is now overhauled and revised in line with the Eurocodes. It forms a comprehensive pocket reference guide for professional and student structural engineers, especially those taking the IStructE Part 3 exam. With stripped-down basic material—tables, data, facts, formulae, and rules of thumb—it is directly usable for scheme design by structural engineers in the office, in transit, or on site. And a Core Reference for Students It brings together data from many different sources, and delivers a compact source of job-simplifying and time-saving information at an affordable price. It acts as a reliable first point of reference for information that is needed on a daily basis. This third edition is referenced throughout to the structural Eurocodes. After giving general information and details on actions on structures, it runs through reinforced concrete, steel, timber, and masonry. Provides essential data on steel, concrete, masonry, timber, and other main materials Pulls together material from a variety of sources for everyday work Serves as a first point of reference for structural and civil engineers A core structural engineering book, *Structural Engineer's Pocket Book: Eurocodes, Third Edition* benefits both students and industry professionals.

Structural Analysis

Civil engineers are introduced to chemistry and biology through a mass and energy balance approach with this book. It covers ABET required topics of emerging importance, such as sustainable and global engineering. Problems are integrated at the end of the chapters that are similar to those on the FE and PE exams. In addition, readers will have access to Web modules, which address a specific topic, such as water and wastewater treatment. The modules include rich content such as animations, audio, video, interactive problem solving, and links to explorations. Civil engineers will also gain a global perspective so they can take a leadership role in sustainable development.

Structural Analysis

This book deals with matrix methods of structural analysis for linearly elastic framed structures. It starts with background of matrix analysis of structures followed by procedure to develop force-displacement relation for a given structure using flexibility and stiffness coefficients. The remaining text deals with the analysis of framed structures using flexibility, stiffness and direct stiffness methods. Simple programs using MATLAB for the analysis of structures are included in the appendix. Key Features Explores matrix methods of structural analysis for linearly elastic framed structures Introduces key concepts in the development of stiffness and flexibility matrices Discusses concepts like action and redundant coordinates (in flexibility method) and active and restrained coordinates (in stiffness method) Helps reader understand the background behind the structural analysis programs Contains solved examples and MATLAB codes

Structural Analysis

The 5th edition of the classic STRUCTURAL ANALYSIS by Aslam Kassamali teaches students the basic principles of structural analysis using the classical approach. The chapters are presented in a logical order, moving from an introduction of the topic to an analysis of statically determinate beams, trusses and rigid frames, to the analysis of statistically indeterminate structures. The text includes solved problems to help illustrate the fundamental concepts. Access to interactive software for analyzing plane framed structures is available for download via the text's companion website. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Structural Design for the Stage

Fluid Mechanics in SI Units

Engineering Mechanics: Combined Statics & Dynamics, Twelfth Edition is ideal for civil and mechanical engineering

professionals. In his substantial revision of Engineering Mechanics, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. In addition to over 50% new homework problems, the twelfth edition introduces the new elements of Conceptual Problems, Fundamental Problems and MasteringEngineering, the most technologically advanced online tutorial and homework system.

Structural Mechanics

Chemical engineers face the challenge of learning the difficult concept and application of entropy and the 2nd Law of Thermodynamics. By following a visual approach and offering qualitative discussions of the role of molecular interactions, Koretsky helps them understand and visualize thermodynamics. Highlighted examples show how the material is applied in the real world. Expanded coverage includes biological content and examples, the Equation of State approach for both liquid and vapor phases in VLE, and the practical side of the 2nd Law. Engineers will then be able to use this resource as the basis for more advanced concepts.

Mechanics of Materials

Sets the standard for introducing the field of comparative politics This text begins by laying out a proven analytical framework that is accessible for students new to the field. The framework is then consistently implemented in twelve authoritative country cases, not only to introduce students to what politics and governments are like around the world but to also understand the importance of their similarities and differences. Written by leading comparativists and area study specialists, Comparative Politics Today helps to sort through the world's complexity and to recognize patterns that lead to genuine political insight. MyPoliSciLab is an integral part of the Powell/Dalton/Strom program. Explorer is a hands-on way to develop quantitative literacy and to move students beyond punditry and opinion. Video Series features Pearson authors and top scholars discussing the big ideas in each chapter and applying them to enduring political issues. Simulations are a game-like opportunity to play the role of a political actor and apply course concepts to make realistic political decisions. ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that

are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase.

Structural Analysis

Pearson introduces yet another textbook from Professor R. C. Hibbeler - Fluid Mechanics in SI Units - which continues the author's commitment to empower students to master the subject.

Structural Timber Design to Eurocode 5

The perfect guide for veteran structural engineers or for engineers just entering the field of offshore design and construction, Marine Structural Design Calculations offers structural and geotechnical engineers a multitude of worked-out marine structural construction and design calculations. Each calculation is discussed in a concise, easy-to-understand manner that provides an authoritative guide for selecting the right formula and solving even the most difficult design calculation. Calculation methods for all areas of marine structural design and construction are presented and practical solutions are provided. Theories, principles, and practices are summarized. The concentration focuses on formula selection and problem solving. A "quick look up guide", Marine Structural Design Calculations includes both fps and SI units and is divided into categories such as Project Management for Marine Structures; Marine Structures Loads and Strength; Marine Structure Platform Design; and Geotechnical Data and Pile Design. The calculations are based on industry code and standards like American Society of Civil Engineers and American Society of Mechanical Engineers, as well as institutions like the American Petroleum Institute and the US Coast Guard. Case studies and worked examples are included throughout the book. Calculations are based on industry code and standards such as American Society of Civil Engineers and American Society of Mechanical Engineers Complete chapter on modeling using SACS software and PDMS software Includes over 300 marine structural construction and design calculations Worked-out examples and case studies are provided throughout the book Includes a number of checklists, design schematics and data tables

Matrix Methods of Structural Analysis

Structural Analysis, or the 'Theory of Structures', is an important subject for civil engineering students who are required to analyze and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like Matrix Method and Plastic Analysis are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes - Structural Analysis I and II. Structural Analysis I deals with the basics of structural analysis, measurements of deflection, various types of deflection, loads and influence lines, etc.

Principles and Applications of Electrical Engineering

Structural Analysis, 8e, provides readers with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames. Emphasis is placed on teaching readers to both model and analyze a structure. Procedures for Analysis, Hibbeler's problem solving methodologies, provides readers with a logical, orderly method to follow when applying theory.

Heat Transfer Calculations

Mechanics of Materials

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Structural Analysis

Structural analysis, or the 'theory of structures', is an important subject for civil engineering students who are required to analyse and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like matrix method and plastic analysis are also taught at the postgraduate level and in Structural Engineering electives. The entire course has been covered in two volumes—Structural Analysis-I and II. Structural Analysis-II deals in depth with the analysis of indeterminate structures, and also special topics like curved beams and unsymmetrical bending. It provides an introduction to advanced methods of analysis, namely, matrix method and plastic analysis. SALIENT FEATURES □ Systematic explanation of concepts and underlying theory in each chapter □ Numerous solved problems presented methodically □ University examination questions solved in many chapters □ A set of exercises to test the student's ability in

solving them correctly NEW IN THE FOURTH EDITION □ Thoroughly reworked computations □ Objective type questions and review questions □ A revamped summary for each chapter □ Redrawing of some diagrams

Structural Analysis

The fourth edition of "Principles and Applications of Electrical Engineering" provides comprehensive coverage of the principles of electrical, electronic, and electromechanical engineering to non-electrical engineering majors. Building on the success of previous editions, this text focuses on relevant and practical applications that will appeal to all engineering students.

The Finite Element Method in Engineering

Integrated Science, Fifth Edition is a straightforward, easy-to-read, yet substantial introduction to the fundamental behavior of matter and energy in living and nonliving systems. The authors provide even, well-integrated coverage of physics, chemistry, earth science, astronomy, and biology. The text's pedagogy (chapter outlines, core concept maps, and overviews) reveals how the science disciplines are interrelated and integrated throughout the text. This edition continues to introduce basic concepts and key ideas while providing opportunities for students to learn reasoning skills and a new way of thinking about their environment. The book is intended to serve the needs of non-science majors who are required to complete one or more science courses as part of a general or basic studies requirement. No prior work in science is assumed. The language, as well as the mathematics, is as simple as can be practical for a college-level science course.

Structural Analysis

Structural Timber Design to Eurocode 5 provides practising engineers and specialist contractors with comprehensive, detailed information and in-depth guidance on the design of timber structures based on the common rules and rules for buildings in Eurocode 5 – Part 1-1. It will also be of interest to undergraduate and postgraduate students of civil and structural engineering. It provides a step-by-step approach to the design of all of the commonly used timber elements and connections using solid timber, glued laminated timber or wood based structural products, and incorporates the requirements of the UK National Annex. It covers: strength and stiffness properties of timber and its reconstituted and engineered products key requirements of Eurocode 0, Eurocode 1 and Eurocode 5 – Part 1-1 design of beams and columns of solid timber, glued laminated, composite and thin-webbed sections lateral stability requirements of timber structures design of mechanical connections subjected to lateral and/or axial forces design of moment resisting rigid and semi-rigid connections racking design of multi-storey platform framed walls Featuring numerous detailed worked examples, the

second edition has been thoroughly updated and includes information on the consequences of amendments and revisions to EC5 published since the first edition, and the significant additional requirements of BSI non contradictory, complimentary information document (PD 6693-1-1) relating to EC5. The new edition also includes a new section on axial stress conditions in composite sections, covering combined axial and bending stress conditions and reference to the major revisions to the design procedure for glued laminated timber.

Theory of Nonlinear Structural Analysis

Packed with laws, formulas, calculations solutions, enhancement techniques and rules of thumb, this practical manual offers fast, accurate solutions to the heat transfer problems mechanical engineers face everyday. Audience includes Power, Chemical, and HVAC Engineers Step-by-step procedures for solving specific problems such as heat exchanger design and air-conditioning systems heat load Tabular information for thermal properties of fluids, gaseous, and solids

Statics and Mechanics of Materials

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