

# Strength Of Materials Solved Problems Free

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**Mechanics of Solids and Structures, Second Edition** Roger T. Fenner 2012-06-12 A popular text in its first edition, Mechanics of Solids and Structures serves as a course text for the senior/graduate (fourth or fifth year) courses/modules in the mechanics of solid/advanced strength of materials, offered in aerospace, civil, engineering science, and mechanical engineering departments. Now, Mechanics of Solid and Structure, Second Edition presents the latest developments in computational methods that have revolutionized the field, while retaining all of the basic principles and foundational information needed for mastering advanced engineering mechanics. Key changes to the second edition include full-color illustrations throughout, web-based computational material, and the addition of a new chapter on the energy methods of structural mechanics. Using authoritative, yet accessible language, the authors explain the construction of expressions for both total potential energy and complementary potential energy associated with structures. They explore how the principles of minimal total potential energy and complementary energy provide the means to obtain governing equations of the structure, as well as a means to determine point forces and displacements with ease using Castigliano's Theorems I and II. The material presented in this chapter also provides a deeper understanding of the finite element method, the most popular method for solving structural mechanics problems. Integrating computer techniques and programs into the body of the text, all chapters offer exercise problems for further understanding. Several appendices provide examples, answers to select problems, and opportunities for investigation into complementary topics. Listings of computer programs discussed are available on the CRC Press website. Engineering Mechanics S. S. Bhavikatti 2008

Applied Mechanics Reviews 1974

Applied Statics and Strength of Materials George F. Limbrunner 2009 Focusing on the fundamentals of material statics and strength, Applied Statics and Strength of Materials, Fifth Edition presents a non-Calculus-based, elementary, analytical, and practical approach, with rigorous, comprehensive example problems that follow the explanation of theory and very complete homework problems that allow trainees to practice the material. The goal of the book is to provide readers with the necessary mechanics background for more advanced and specialized areas of study in the many fields of engineering technology – for example, civil, mechanical, construction, architectural, industrial, and manufacturing.

**Solid Mechanics (For Anna University)** Bhavikatti S.S. Throughout the book, emphasis has been laid on developing the concepts, clarifying the units to be used in final equations and neatly presenting solutions for the numerical problems. The features of this 'one-stop' book will help the students to prepare themselves for taking up the design papers taught in higher classes. Key Features 1. Use of SI units 2. Summary of important concepts and formulae at the end of the book 3. Large number of solved problems, presented systematically 4. Large number of exercise problems 5. Simple and clear explanation of concepts 6. Generous use of diagrams for better understanding 7. Includes University question papers

**Mechanics of Materials** Bichara B. Muvdi 2016-09-19 Mechanics of Materials: With Applications in Excel® covers the fundamentals of the mechanics of materials—or strength of materials—in a clear and easily understandable way. Each chapter

explains the theory of the underlying principles and the applicable mathematical relations, offering examples that illustrate the application of the mathematical relations to physical situations. Then, homework problems—arranged from the simplest to the most demanding—are presented, along with a number of challenging review problems, to ensure comprehension of key concepts. What makes this book unique is that it also instills practical skills for developing Microsoft Excel applications to solve mechanics of materials problems using numerical techniques. Mechanics of Materials: With Applications in Excel® provides editable Excel spreadsheets representing all the examples featured in the text, PowerPoint lecture slides, multimedia simulations, graphics files, and a solutions manual with qualifying course adoption.

Introduction To Mechanical Engineering: Thermodynamics, Mechanics And Strength Of Material Onkar Singh 2006-01-01 This Book Is The Systematic Presentation Of The Concepts And Principles Essential For Understanding Engineering Thermodynamics, Engineering Mechanics And Strength Of Materials. Textbook Covers The Complete Syllabus Of Compulsory Subject Of Mechanical Engineering Of Uttar Pradesh Technical University, Lucknow In Particular And Other Universities Of The Country In General For Undergraduate Students Of Engineering And Technology. \* Basic Concepts And Laws Of Thermodynamics Have Been Clearly Explained Using A Large Number Of Solved Problems \* Entropy, Properties Of Pure Substances, Thermodynamic Cycles And Ic Engines Are Described In Detail. Steam Tables And mollier Diagram Is Included \* Principles Of Engineering Mechanics Have Been Discussed In Detail And Supported By Sufficient Number Of Solved And Unsolved Problems \* Simple And Compound Stresses Are Discussed At Length \* Bending Stresses In Beam And Torsion Have Been Covered In Detail \* Large Number Of Solved And Unsolved Problems With Answers Are Given At The End Of Each Chapter \* SI Units Are Used Throughout The Book

**Problem Solver in Strength of Materials and Mechanics of Solids** Research and Education Association 1980

A Textbook of Strength of Materials RK Rajput A comprehensive and lucidly written book, [Strength of Materials] captures the syllabus of most major Indian Universities and competitive examinations as well. The book discusses everything under solids and its mechanics (such as providing different aspects of stresses) and provides the reader with a deeper interest in the subject [all within aptly formed chapters. It also contains typical examples (useful for students appearing in competitive examinations in particular and other students in general), highlights, objective type questions and a large number of unsolved examples for a complete grasp of the subject.

Advanced Strength of Materials (WBSCTE) S.S. Bhavikatti This book follows the West Bengal Polytechnic syllabus for mechanical branch. The book is written in S I units. Notations used are as per Indian Standard Codes. Apart from West Bengal Polytechnic students of mechanical branch, it is hoped that students of other states that follow similar syllabus may also find it a useful textbook. The subject is developed systematically, using simple English and a large number of figures. At the end of each chapter a set of problems are presented along with answers so that the students can check their ability to solve problems. To enhance the ability of students to answer semester questions and examinations, a set of

descriptive type, fill in the blanks type, identifying true/ false type and multiple choice questions are also given. KEY FEATURES • 100 per cent coverage of new syllabus • Emphasis on practice of numericals for guaranteed success in exams • Lucidity and simplicity maintained throughout • Nationally acclaimed author of over 40 books

**Strength Of Materials** S. Ramamrutham 2008 This book on the Strength Of Materials deals with the basic principles of the subject. All topics have been introduced in a simple manner. The book has been written mainly in the M.K.S. system of units. The book has been prepared to suit the requirements of students preparing for A.M.I.E. degree and diploma examinations in engineering. The chapters Shear Forces and Bending Moments, Stresses in Beams, Masonry Dams and Retaining Walls, Fixed and Continuous Beams and Columns and Struts: have been enlarged. Problems have been taken from A.M.I.E. and various university examinations. This edition contains hundreds of fully solved problems besides many problems set for exercise at the end of each chapter.

**Applied Strength of Materials** Robert Mott 2016-11-17 Designed for a first course in strength of materials, Applied Strength of Materials has long been the bestseller for Engineering Technology programs because of its comprehensive coverage, and its emphasis on sound fundamentals, applications, and problem-solving techniques. The combination of clear and consistent problem-solving techniques, numerous end-of-chapter problems, and the integration of both analysis and design approaches to strength of materials principles prepares students for subsequent courses and professional practice. The fully updated Sixth Edition. Built around an educational philosophy that stresses active learning, consistent reinforcement of key concepts, and a strong visual component, Applied Strength of Materials, Sixth Edition continues to offer the readers the most thorough and understandable approach to mechanics of materials.

**Mechanics of Materials** William F. Riley 2007 This leading book in the field focuses on what materials specifications and design are most effective based on function and actual load-carrying capacity. Written in an accessible style, it emphasizes the basics, such as design, equilibrium, material behavior and geometry of deformation in simple structures or machines. Readers will also find a thorough treatment of stress, strain, and the stress-strain relationships. These topics are covered before the customary treatments of axial loading, torsion, flexure, and buckling.

**Mechanics of Materials 2** E.J. Hearn 1997-11-25 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.

**Schaum's Outline of Statics and Strength of Materials** John H. Jackson 1983-05-22 A manual on the principles of statics and the strength of materials includes discussions of friction, force systems, stresses, and column design

**Schaum's Outline of Strength of Materials, 6ed** William Nash 2013-11-08 More than 40 million sold in the Schaum's Outline series! This ideal review for the

thousands of civil and mechanical engineering students covers tension and compression, shearing forces, torsion, and more Schaum's Outline of Strength of Materials mirrors the course in scope and sequence to help enrolled students understand basic concepts and offer extra practice on topics such as determinate force systems, indeterminate force systems, torsion, cantilever beams, statically determinate beams, and statically indeterminate beams. This new edition boasts problem-solving videos available online and embedded in the e-book version. Features: 618 solved problems Problem-solving videos available online and embedded in the ebook version Clear, concise explanations of all strength of materials concepts Helpful material for the following courses: Strength of Materials; Mechanics of Materials; Introductory Structural Analysis; Mechanics and Strength of Materials Support for all the major textbooks for strength of materials courses **Textbook of Mechanics of Materials** Prakash M. N. Shesha 2011 This textbook covers the fundamental principles and applications and discusses topics, such as, simple and compound stresses, bending moments, shear forces, stresses in beams, deflection in beams, torsion of shafts, thick and thin cylinders, and columns and struts.

**Strength of Materials** J. P. Den Hartog 1961-06-01 Developed at MIT, this distinguished introductory text is popular at engineering schools around the world. It also serves as a refresher and reference for professionals. In addition to coverage of customary elementary subjects (tension, torsion, bending, etc.), it features advanced material on engineering methods and applications, plus 350 problems and answers. 1949 edition.

**Schaum's Outline of Strength of Materials** William Nash 1998-07-22 Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time—and get your best test scores! Schaum's Outlines—Problem Solved.

**Mechanics of Materials For Dummies** James H. Allen, III 2011-07-12 Your ticket to excelling in mechanics of materials With roots in physics and mathematics, engineering mechanics is the basis of all the mechanical sciences: civil engineering, materials science and engineering, mechanical engineering, and aeronautical and aerospace engineering. Tracking a typical undergraduate course, Mechanics of Materials For Dummies gives you a thorough introduction to this foundational subject. You'll get clear, plain-English explanations of all the topics covered, including principles of equilibrium, geometric compatibility, and material behavior; stress and its relation to force and movement; strain and its relation to displacement; elasticity and plasticity; fatigue and fracture; failure modes; application to simple engineering structures, and more. Tracks to a course that is a prerequisite for most engineering majors Covers key mechanics concepts, summaries of useful equations, and helpful tips From geometric principles to solving complex equations, Mechanics of Materials For Dummies is an invaluable resource for engineering students!

**Applied Strength of Materials, Sixth Edition SI Units Version** Robert L. Mott 2017-11-06 APPLIED STRENGTH OF MATERIALS 6/e, SI Units Version provides coverage of basic strength of materials for students in Engineering Technology (4-yr and 2-yr) and uses only SI units. Emphasizing applications, problem solving, design of structural members, mechanical devices and systems, the book has been updated to include coverage of the latest tools, trends, and techniques. Color graphics support visual learning, and illustrate concepts and applications. Numerous instructor resources are offered, including a Solutions Manual, PowerPoint slides,

Figure Slides of book figures, and extra problems. With SI units used exclusively, this text is ideal for all Technology programs outside the USA.

*Strength of Materials, 4th Edition* S.S. Bhavikatti A comprehensive coverage, student-friendly approach and the all-steps-explained style. This has made it the best-selling book among all the books on the subject. The author's zeal of presenting the text in line with the syllabuses has resulted in the edition at hand, which continues its run with all its salient features as earlier. Thus, it takes care of all the syllabuses on the subject and fully satisfies the needs of engineering students. KEY FEATURES • Use of SI units • Summary of important concepts and formulae at the end of every chapter • A large number of solved problems presented systematically • A large number of exercise problems to test the students' ability • Simple and clear explanation of concepts and the underlying theory in each chapter • Generous use of diagrams (more than 550) for better understanding NEW IN THE FOURTH EDITION ♦ Overhaul of the text to match the changes in various syllabuses ♦ Additional topics and chapters for the benefit of mechanical engineers, like • Stresses and strains in two- and three-dimensional systems, and Hooke's law • Euler's buckling load and secant formula • Deflection of determinate beams using moment area and conjugate beam methods • Deflection of beams and rigid frames by energy methods ♦ Redrawing of some diagrams

**A Text Book of Strength of Materials** R. K. Bansal

**Problems in Strength of Materials** N. M. Belyayev 2013-10-22 Problems in Strength of Materials is a translation from the Russian and presents problems concerning determining and calculating the strength of materials. This book presents the properties of materials that have to do with strength through problem solving. This book give several examples of tension and compression problems, such as those concerning statically determinate and indeterminate systems, self-weight, and calculation for flexible wires or cables. The text cites problems with uniaxial and plane states of stress; and suggests solutions to questions, for example, by using the formula for determining the maximum strains of an element in three dimensional state of stress. This book also explains how to determine acceptable stress forming on thin-walled or thick-walled containers. Other examples concern problems of shear and torsion, plane flexure, and the analytical methods to determine deformations in steel bars, as well as the graphical and semi-graphical methods of finding the values of deflections. This book also explains how to find the solution of problems on inertia forces, oscillations, resonance, and the stresses and deformations that result upon impact of a certain load. This book can be used as reference for students pursuing Higher National Diploma and Certificate, and for students of engineering.

**Strength of Materials Mechanics of Solids Problem Solver** REA's Problem Solvers solve not only the simple problems, but also those difficult problems not found in study/solution manuals. It's the difficult ones that you encounter on tests.

**Strength of Materials** Robert W. Fitzgerald 1967

**Mechanics of Materials** C. H. Jenkins 2005 "The unifying treatment of structural design presented here should prove useful to any engineer involved in the design of structures. A crucial divide to be bridged is that between applied mechanics and materials science. The onset of specialization and the rapid rise of technology, however, have created separate disciplines concerned with the deformation of solid materials. Unfortunately, the result is in many cases that society loses out on having at their service efficient, high-performance material/structural systems." "We follow in this text a very methodological process to introduce mechanics, materials, and design issues in a manner called total structural design. The idea is to seek a solution in "total design space." "The material presented in this text is suitable for a first course that encompasses both the traditional mechanics of materials and properties of materials courses. The text is also appropriate for a second course in mechanics of materials or a follow-on course in design of structures, taken after the typical introductory mechanics and properties courses. This text can be adapted to several different curriculum formats, whether traditional or modern. Instructors using the text for a traditional course may find that the text in fact facilitates

transforming their course over time to a more modern, integrated approach."--BOOK JACKET.

**FUNDAMENTALS OF STRENGTH OF MATERIALS (With CD )** Debabrata Nag 2010-07-01 Market\_Desc: Primary MarketUndergraduate students from various engineering disciplines like mechanical, civil, electrical, aeronautical, chemical, metallurgy, etc.Secondary MarketPostgraduate students and academicians.Practicing engineers working in industries, Institute of Engineers, libraries of various design engineering offices and industrial plants Special Features: • Complete syllabi coverage of all leading universities of various engineering disciplines like mechanical, civil, electrical, aeronautical, chemical, metallurgy. • Topics explored and elaborated for both elementary as well as advanced levels. • Self-explanatory figures with liberal use of free-body diagrams to aid easy understanding. • Well-graded solved examples from easy to difficult levels in each chapter to explain the subjective intricacies and problem-solving tactics. • Last 5 years' questions from various university examinations included at the end of all chapters. • Model question papers for giving scope of mock tests appended at the end of the book. • Appendices including: " Deliberation on the topic of area moment of inertia." Summarised results of beam deflections for various beam configurations." Various symbols with their respective units and brief explanation on the various systems of units." Elaboration on the topic of pure bending and quick calculations for area under parabolas. • Excellent pedagogy including: " 660+ illustrations." 140+ review questions." 230+ solved examples." 260+ unsolved problems. • CD material containing: " Three useful chapters containing some special topics on leaf springs, beams of composite materials and continuous beams in form of Chapters 17, 18 and 19." History of the subject and its progress through various centuries." Lab manual containing some important experiments with detailed theory and illustrations." Last 10 years IES and GATE completely solved questions with explanatory answers." Uses of the Book" Helpful for the university students and also practicing engineers working in the industries for reference." Serves as a bridging subject for the applied subjects like Machine Design and Theory of Structures." Serves as the basic background for the more advanced-level subjects like Theory of Elasticity, Stress and Deformation Analysis or Advanced Mechanics of Solids. About The Book: This book covers one of the most fundamental subjects of Engineering discipline - Strength of Materials, also known as Mechanics of Materials, Mechanics of Deformable Bodies or Mechanics of Solids globally. The subject lays the ground for various Engineering subjects, ranging from Machine Design, Finite-Element Analysis, Theory of Structures, Bio-Mechanics, and Fracture Mechanics. In this book, the topics are broadly divided into two parts: Elementary Strength of Materials and Advanced Strength of Materials, thereby progressing from basic fundamentals to detailed analysis. The first eight chapters deal with basic concepts of strengths of materials such as theories of stress and strain, torsion, deflection and buckling of columns. The remaining chapters deal with the advanced topics such as advanced theories of stress and strain, energy principles, failure theories, theories of curved and continuous beams, unsymmetric or asymmetric bending.

**STRENGTH OF MATERIALS** A. K. SRIVASTAVA 2013-03-10 The book, now in the Second Edition, presents the fundamental principles of strength of materials and focuses on 3D analysis of stress and strain, double integration method, Macaulay's method, moment area method and method for determining stresses using Winkler-Bach theory. It also covers the analyses of helical springs and leaf spring, and buckling analysis of columns and struts using Euler's and Rankine's theory. This edition includes four new chapters, namely Simple and Compound Stress, Theory of Failure, Energy Methods and Finite Element Method and its Applications Using ANSYS Software. The chapter on Analysis of Stress and Strain has been thoroughly revised. The text is primarily designed for the undergraduate students of mechanical engineering, production engineering, and industrial engineering. Besides students, practising engineers would also find the book useful. KEY FEATURES : A large number of numerical problems Open-ended or synthesis-type examples wherever required Chapter-end exercises

**Engineering Mechanics of Materials** B. B. Muvdi 1984 Two previous editions were published by Macmillan. the objective is to provide a clear and understandable treatment of the concepts of mechanics of materials or strength of materials. Revisions in each chapter, preface and examples. Computer-aided techniques are included as well as numerous examples and exercises. Annotation copyrighted by Book News, Inc., Portland, OR

A Textbook of Strength of Materials RS Khurmi | N Khurmi Strength of Materials: Mechanics of Solids in SI Units is an all-inclusive text for students as it takes a detailed look at all concepts of the subject. Distributed evenly in 35 chapters, important focusses are laid on stresses, strains, inertia, force, beams, joints and shells amongst others. Each chapter contains numerous solved examples supported by exercises and chapter-end questions which aid to the understanding of the concepts explained. A book which has seen, foreseen and incorporated changes in the subject for close to 50 years, it continues to be one of the most sought after texts by the students for all aspects of the subject.

**Strength of Materials** P. Purushothama Raj 1983 Strength of Materials is designed for the undergraduate students of civil and mechanical engineering for their core paper on Strength of Materials. The book offers detailed explanations with clear illustrations and a wide variety of solved problems. The step-by-step derivations help students relate to the concepts easily.

*Advanced Strength of Materials* J. P. Den Hartog 1987-01-01 Four decades ago, J.P. Den Hartog, then Professor of Mechanical Engineering at Massachusetts Institute of Technology, wrote Strength of Materials, an elementary text that still enjoys great popularity in engineering schools throughout the world. Widely used as a classroom resource, it has also become a favorite reference and refresher on the subject among engineers everywhere. This is the first paperback edition of an equally successful text by this highly respected engineer and author. Advanced Strength of Materials takes this important subject into areas of greater difficulty, masterfully bridging its elementary aspects and its most formidable advanced reaches. The book reflects Den Hartog's impressive talent for making lively, discursive and often witty presentations of his subject, and his unique ability to combine the scholarly insight of a distinguished scientist with the practical, problem-solving orientation of an experienced industrial engineer. The concepts here explored in depth include torsion, rotating disks, membrane stresses in shells, bending of flat plates, beams on elastic foundation, the two-dimensional theory of elasticity, the energy method and buckling. The presentation is aimed at the student who has a one-semester course in elementary strength of materials. The book includes an especially thorough and valuable section of problems and answers which give both students and professionals practice in techniques and clear illustrations of applications.

FUNDAMENTALS OF STRENGTH OF MATERIALS P. N. CHANDRAMOULI 2012-10-12 This book provides comprehensive coverage of the fundamental concepts and all the key topics of interest in Strength of Materials with an emphasis on solving practical problems, from the first principles, related to the design of structural members, mechanical devices and systems in several fields of engineering. The book is organized to present a thorough treatment of stress analysis first. This treatment of basic principles is followed by appropriate application of analysis techniques and design approaches to trusses and cables, torsion in circular shaft, deflection of beams, buckling of straight columns and struts, and analysis of thick- and

thin-walled cylinders under internal and external pressure. The book features clear explanations, a wealth of excellent worked-out examples of practical applications, and challenging problems. The book is intended for the undergraduate students of civil, mechanical, electrical, chemical, aeronautical, and production and industrial engineering. Key Features Provides a large number of worked-out examples to help students comprehend the concepts with ease. Gives chapter-end review questions to test students' understanding of the subject. Includes chapter-end numerical problems to enhance the problem-solving ability of students. Many of the problems depict realistic situations encountered in engineering practice. Incorporates objective type questions to help students assess their overall mastery of the subject.

*Engineering Mechanics and Strength of Materials*

**A Textbook of Strength of Materials** Dr. R. K. Bansal 2001

Statics and Mechanics of Materials William F. Riley 2001-10-30 The second edition of Statics and Mechanics of Materials: An Integrated Approach continues to present students with an emphasis on the fundamental principles, with numerous applications to demonstrate and develop logical, orderly methods of procedure. Furthermore, the authors have taken measure to ensure clarity of the material for the student. Instead of deriving numerous formulas for all types of problems, the authors stress the use of free-body diagrams and the equations of equilibrium, together with the geometry of the deformed body and the observed relations between stress and strain, for the analysis of the force system action of a body.

**Strength of Materials** J. Pattabiraman 2019-06-12 This book is intended to benefit different segments of target audience—right from under-graduate and post-graduate students and teachers of Mechanical Engineering, in Universities and Engineering Colleges across India, practicing professionals, Design Engineers and Engineering Consultants working in Industries and Consulting organizations. All the above aspects have together made this book unique in several aspects. From a Mechanical Engineering Student's angle, this book covers the syllabus prescribed by Indian Universities extensively, with theory, practical applications of the theory, illustrated with several worked out examples and problems, along with 'chapter wise review questions' taken from standard university question papers. The engineering application of the theories along with the case study, solved by the author himself, present the inter-disciplinary nature of engineering problems and solutions, in the subject of 'Strength of Materials'. The book strives to relate well and establish a good connect among various fields of study like Materials, Design, Engineering Tables, Design Codes, Design Cycle, Role of Analysis, Theory of Elasticity, Finite Element Methods, Failure theory, Experimental techniques and Product Engineering. The author sincerely hopes that the book will be found immensely beneficial and will be well received by its intended target audience—the students and teachers of Mechanical Engineering, as well as practicing Design Engineers and Consultants.

*Strength of Materials* Alfred Peter Poorman 1945

**New Scientist** 1960-06-23 New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.