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J.R.BARBER: INTERMEDIATE MECHANICS OF MATERIALS

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J.R.BARBER . J.R.BARBER graduated in Mechanical Sciences from Cambridge University in 1963 and joined British Rail, who later sponsored his research at Cambridge between 1965 and 1968 on the subject of thermal effects in braking systems. In 1969 he became Lecturer and later Reader in Solid Mechanics at the University of Newcastle upon Tyne.

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This book covers the essential topics for a second-level course in strength of materials or mechanics of materials, with an emphasis on techniques that are useful for mechanical design. Design typically involves an initial conceptual stage during which many options are considered. At this stage, quick approximate analytical methods are crucial in determining which of the initial proposals are feasible. The ideal would be to get within 30% with a few lines of calculation. The designer also needs to develop experience as to the kinds of features in the geometry or the loading that are most likely to lead to critical conditions. With this in mind, the author tries wherever possible to give a physical and even an intuitive interpretation to the problems under investigation. For example, students are encouraged to estimate the location of weak and strong bending axes and the resulting neutral axis of bending before performing calculations, and the author discusses ways of getting good accuracy with a simple one degree of freedom Rayleigh-Ritz approximation. Students are also encouraged to develop a feeling for structural deformation by performing simple experiments in their outside environment, such as estimating the radius to which an initially straight bar can be bent without producing permanent deformation, or convincing themselves of the dramatic difference between torsional and bending stiffness for a thin-walled open beam section by trying to bend and then twist a structural steel beam by hand-applied loads at one end. In choosing dimensions for mechanical components, designers will expect to be guided by criteria of minimum weight, which with elementary calculations, generally leads to a thin-walled structure as an optimal solution. This consideration motivates the emphasis on thin-walled structures, but also demands that students be introduced to the limits imposed by structural instability. Emphasis is also placed on the effect of manufacturing errors on such highly-designed structures - for example, the effect of load misalignment on a beam with a large ratio between principal stiffness and the large magnification of initial alignment or loading errors in a strut below, but not too far below the buckling load. Additional material can be found on http://extras.springer.com/ .

This new book offers an original approach to second-level course in Mechanics of Materials/Strength, taken by Mechanical, Aerospace, and Civil Engineering students in their junior/senior year. Barber begins by discussing the tenets of engineering design, and links subsequent mechanics concepts to the design work practicing engineers do. Physical and often intuitive interpretations are provided, in addition to analytical explanations. The author also presents simple experiments students can perform to gain a better understanding of mechanics concepts. Throughout the book he strives to simplify the mathematics and engineering terminology, and develop explanations in a way students can follow clearly.

Intermediate Mechanics of Materials is designed for the second course in mechanics of materials. In the first course, the students are introduced to mechanics of materials variables, the relationship between these variables, and the use of these variables in the development of the simplest theories of one-dimensional structural elements of axial rods, torsion of circular shafts, and symmetric bending of beams. Intermediate Mechanics of Materials builds on this foundation by incorporating temperature, material non-homogeneities, material non-linearities, and geometric complexities. This book is independent of the one used in the learning and teaching of the first course of mechanics of materials. The growth of new disciplines such as plastic and biomedical engineering has increased emphasis on incorporating non-linear material behavior in engineering design and analysis. Incorporating material non-homogeneity is also growing with the increased use of metal matrix composites, polymer composites, reinforced concrete, and wooden beams stiffened with steel strips and other laminated structures. Residual stresses to increase load carrying capacity of metals, unsymmetric bending, shear center, beam and shaft vibrations, beams on elastic foundations, Timoshenko beams, are all complexities that are acquiring greater significance in engineering. In Intermediate Mechanics of Materials, the author shows the modularity of the logic, shown on the front cover of the book. The repetitive use of this logic demonstrates the ease with which the aforementioned complexities can be incorporated into the simple theories of the first course and used for design and analysis of simple structures. For additional details see madhuvable.org

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The ultimate resource for designers, engineers, and analyst working with calculations of loads and stress.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

L.A. Galin's book on contact problems is a remarkable work. Actually there are two books: the first, published in 1953 deals with contact problems in the classical theory of elasticity; this is the one that was translated into English in 1961. The second book, published in 1980, included the first, and then had new sections on contact problems for viscoelastic materials, and rough contact problems; this section has not previously been translated into English. In this new translation, the original text and the mathematical analysis have been completely revised, new material has been added, and the material appearing in the 1980 Russian translation has been completely rewritten. In addition there are three essays by students of Galin, bringing the analysis up to date.

This book describes the solution of contact problems with an emphasis on idealized (mainly linear) elastic problems that can be treated with elementary analytical methods. General physical and mathematical features of these solutions are highlighted. Topics covered include the contact of rough surfaces and problems involving adhesive (e.g. van der Waals) forces. The author is a well-known researcher in the subject with hands-on experience of the topics covered and a reputation for lucid explanations. The target readership for the book includes researchers who encounter contact problems but whose primary focus is not contact mechanics. Coverage is also suitable for a graduate course in contact mechanics and end-of-chapter problems are included.

One of the Top Selling Physics Books according to YBP Library Services Order can be found in all the structures unfolding around us at different scales, including in the arrangements of matter and in energy flow patterns. Aperiodic Structures in Condensed Matter: Fundamentals and Applications focuses on a special kind of order referred to as aperiodic order. The book covers several topics dealing with the role of aperiodic order in numerous domains of the physical sciences and technology. It first presents the most characteristic features of various aperiodic systems. The author then describes theoretical aspects and useful mathematical approaches to properly study the physical systems. Focusing on applied issues, he discusses how to exploit aperiodic order in different technological devices. The author also examines one-, two-, and three-dimensional designs. For those new to the field of aperiodic systems, this book is an excellent guide to the many facets and applications of aperiodic structures.