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XANDER-HANK-OF-THE "Solid DD!

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Reissue of Encyclopedia of Physics / Handbuch der Physik, Volume VIa The mechanical response of solids was first reduced to an organized science of fairly general scope in the nineteenth century. The theory of small elastic deformations is in the main the creation of CAUCHY, who, correcting and simplifying the work of NAVIER and POISSON, through an astounding application of conjoined scholarship, originality, and labor greatly extended in breadth the shallowest aspects of the treatments of particular kinds of bodies by GALILEO, LEIBNIZ, JAMES BERNOULLI, PARENT, DANIEL BERNOULLI, EULER, and COULOMB. Linear elasticity became a branch of mathematics, cultivated wherever there

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were mathematicians. The magisterial treatise of LOVE in its second edition, 1906 - clear, compact, exhaustive, and learned - stands as the summary of the classical theory. It is one of the great "gaslight works" that in BOCHNER'S words! "either do not have any adequate successor[s] "" or, at least, refuse to be super seded . . . ; and so they have to be reprinted, in ever increasing numbers, for active research and reference", as long as State and Society shall permit men to learn mathematics by, for, and of men's minds. Abundant experimentation on solids was done during the same century. Usually the materials arising in nature, with which experiment most justly concerns itself, do not stoop easily to the limitations classical elasticity posits.

Mechanics of Solids is designed to fulfill the needs of the mechanics of solids or

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strength of materials courses that are offered to undergraduate students of mechanical, civil, aeronautics and chemical engineering during the second and third semesters. The book has been thoroughly revised with multiple-choice questions, examples and exercises to match the syllabi requirement of various universities across the country.

Sir Geoffrey Ingram Taylor (1886-1975) was a physicist, mathematician and expert on fluid dynamics and wave theory. He is widely considered to be one of the greatest physical scientists of the twentieth century. Across these four volumes,

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published between the years 1958 and 1971, Batchelor has collected together almost 200 of Sir Geoffrey Ingram Taylor's papers. The papers of the first three volumes are grouped approximately by subject, with Volume IV collating a number of miscellaneous papers on the mechanics of fluids. Together, these volumes allow a thorough exploration of the breadth and diversity of Sir Geoffrey Taylor's interests within the field of fluid dynamics. At the end of Volume IV, Batchelor provides the reader with both a chronological list of the papers presented across all four volumes, and a list of Sir Geoffrey Taylor's other published articles, completing this truly invaluable research and reference work.

Ten years after publication of the popular first edition of this volume, the index theorem continues to stand as a central

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result of modern mathematics—one of the most important foci for the interaction of topology, geometry, and analysis.

Retaining its concise presentation but offering streamlined analyses and expanded coverage of important examples and applications, Elliptic Operators, Topology, and Asymptotic Methods, Second Edition introduces the ideas surrounding the heat equation proof of the Atiyah-Singer index theorem. The author builds towards proof of the Lefschetz formula and the full index theorem with four chapters of geometry, five chapters of analysis, and four chapters of topology. The topics addressed include Hodge theory, Weyl's theorem on the distribution of the eigenvalues of the Laplacian, the asymptotic expansion for the heat kernel, and the index theorem for Dirac-type operators using Getzler's direct method. As a "dessert," the final two chapters offer

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discussion of Witten's analytic approach to the Morse inequalities and the L2-index theorem of Atiyah for Galois coverings.

The text assumes some background in differential geometry and functional analysis. With the partial differential equation theory developed within the text and the exercises in each chapter, Elliptic Operators, Topology, and Asymptotic Methods becomes the ideal vehicle for self-study or coursework. Mathematicians, researchers, and physicists working with index theory or supersymmetry will find it a concise but wide-ranging introduction to this important and intriguing field.

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