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## KEY=ME - JOHNSON VALENTINE

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### MECCANICA RAZIONALE

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*Springer* Questo testo, che giunge ora alla Terza Edizione, è stato concepito principalmente per le necessità delle Scuole di Ingegneria, dove la Meccanica Razionale ha il duplice ruolo di introdurre sia alla modellizzazione fisico-matematica rigorosa che a specifiche applicazioni sviluppate poi in altri insegnamenti. La trattazione che qui proponiamo vuole presentare i concetti fondamentali mantenendo sempre l'attenzione rivolta alle applicazioni, a volte comuni ad altre discipline, in vista di sinergie didattiche favorite dalla presenza di corsi integrati. Abbiamo cercato di dare al libro una impostazione il più possibile coerente con questa finalità, soprattutto in alcune sezioni tradizionalmente caratterizzate da una trattazione più astratta: dai vincoli al Principio dei lavori virtuali, dal Principio di d'Alembert alla Meccanica Analitica. Abbiamo comunque mantenuto la tradizionale e, a nostro parere, irrinunciabile struttura ipotetico-deduttiva nello svolgimento delle argomentazioni, che fa ancora della Meccanica Razionale un disciplina formalmente rigorosa. Sono perciò presenti dimostrazioni anche complesse, sia pure sempre motivate alla luce del contesto applicativo nel quale si vanno a collocare. Questa Terza Edizione è frutto di un ampio lavoro di riorganizzazione e rielaborazione rispetto alla precedente e contiene, oltre a numerosi nuovi esempi, miglioramenti nella presentazione dei concetti principali e nello svolgimento delle dimostrazioni, per renderle didatticamente più efficaci.

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## ADVANCES ON MECHANICS, DESIGN ENGINEERING AND MANUFACTURING III

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## **PROCEEDINGS OF THE INTERNATIONAL JOINT CONFERENCE ON MECHANICS, DESIGN ENGINEERING & ADVANCED MANUFACTURING, JCM 2020, JUNE 2-4, 2020**

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*Springer Nature* This open access book gathers contributions presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2020), held as a web conference on June 2-4, 2020. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is organized into four main parts, reflecting the focus and primary themes of the conference. The contributions presented here not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed and future interdisciplinary collaborations.

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### **MATHEMATICAL LIVES**

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#### **PROTAGONISTS OF THE TWENTIETH CENTURY FROM HILBERT TO WILES**

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*Springer Science & Business Media* Steps forward in mathematics often reverberate in other scientific disciplines, and give rise to innovative conceptual developments or find surprising technological applications. This volume brings to the forefront some of the proponents of the mathematics of the twentieth century, who have put at our disposal new and powerful instruments for investigating the reality around us. The portraits present people who have impressive charisma and wide-ranging cultural interests, who are passionate about defending the importance of their own research, are sensitive to beauty, and attentive to the social and political problems of their times. What we have sought to document is mathematics' central position in the culture of our day. Space has been made not only for the great mathematicians but also for literary texts, including contributions by two apparent interlopers, Robert Musil and Raymond Queneau, for whom mathematical concepts represented a valuable tool for resolving the struggle between 'soul and precision.'

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### **Q**

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*Random House* "Set in Reformation Europe, Q begins with Luther's nailing of his 95 theses on the door of the cathedral church in Wittenberg. Q traces the adventures and conflicts of two central characters: an Anabaptist, a member of the most radical of the Protestant sects and the anarchists of the Reformation, and a Catholic spy and informer, on their thrilling journey across Germany, Italy and the Netherlands."--

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## CURVES AND SURFACES

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*Springer Science & Business Media* The book provides an introduction to Differential Geometry of Curves and Surfaces. The theory of curves starts with a discussion of possible definitions of the concept of curve, proving in particular the classification of 1-dimensional manifolds. We then present the classical local theory of parametrized plane and space curves (curves in  $n$ -dimensional space are discussed in the complementary material): curvature, torsion, Frenet's formulas and the fundamental theorem of the local theory of curves. Then, after a self-contained presentation of degree theory for continuous self-maps of the circumference, we study the global theory of plane curves, introducing winding and rotation numbers, and proving the Jordan curve theorem for curves of class  $C^2$ , and Hopf theorem on the rotation number of closed simple curves. The local theory of surfaces begins with a comparison of the concept of parametrized (i.e., immersed) surface with the concept of regular (i.e., embedded) surface. We then develop the basic differential geometry of surfaces in  $R^3$ : definitions, examples, differentiable maps and functions, tangent vectors (presented both as vectors tangent to curves in the surface and as derivations on germs of differentiable functions; we shall consistently use both approaches in the whole book) and orientation. Next we study the several notions of curvature on a surface, stressing both the geometrical meaning of the objects introduced and the algebraic/analytical methods needed to study them via the Gauss map, up to the proof of Gauss' Teorema Egregium. Then we introduce vector fields on a surface (flow, first integrals, integral curves) and geodesics (definition, basic properties, geodesic curvature, and, in the complementary material, a full proof of minimizing properties of geodesics and of the Hopf-Rinow theorem for surfaces). Then we shall present a proof of the celebrated Gauss-Bonnet theorem, both in its local and in its global form, using basic properties (fully proved in the complementary material) of triangulations of surfaces. As an application, we shall prove the Poincaré-Hopf theorem on zeroes of vector fields. Finally, the last chapter will be devoted to several important results on the global theory of surfaces, like for instance the characterization of surfaces with constant Gaussian curvature, and the orientability of compact surfaces in  $R^3$ .

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## MATHEMATICAL ANALYSIS I

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*Springer* The purpose of the volume is to provide a support for a first course in Mathematics. The contents are organised to appeal especially to Engineering, Physics and Computer Science students, all areas in which mathematical tools play a crucial role. Basic notions and methods of differential and integral calculus for functions of one real variable are presented in a manner that elicits critical reading and prompts a hands-on approach to concrete applications. The layout has a specifically-designed modular nature, allowing the instructor to make flexible didactical choices when planning an introductory lecture course. The book may in fact be employed at three levels of depth. At the elementary level the student is supposed to grasp the very essential ideas and familiarise with the corresponding key techniques. Proofs to the main results befit the intermediate level, together with several remarks and complementary notes enhancing the treatise. The last, and

farthest-reaching, level requires the additional study of the material contained in the appendices, which enable the strongly motivated reader to explore further into the subject. Definitions and properties are furnished with substantial examples to stimulate the learning process. Over 350 solved exercises complete the text, at least half of which guide the reader to the solution. This new edition features additional material with the aim of matching the widest range of educational choices for a first course of Mathematics.

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## **THE THEORETICAL MINIMUM**

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### **WHAT YOU NEED TO KNOW TO START DOING PHYSICS**

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*Penguin UK* In this unconventional and stimulating primer, world-class physicist Leonard Susskind and citizen-scientist George Hrabovsky combine forces to provide a brilliant first course in modern physics. Unlike most popular physics books - which give readers a taste of what physicists know but not what they actually do - Susskind and Hrabovsky teach the skills you need to do physics yourself. Combining crystal-clear explanations of the laws of the universe with basic exercises, the authors cover the minimum - the theoretical minimum of the title - that readers need to master in order to study more advanced topics. In a lucid, engaging style, they introduce all the key concepts, from classical mechanics to general relativity to quantum theory. Instead of shying away from the equations and maths that are essential to any understanding of physics, *The Theoretical Minimum* provides a toolkit that you won't find in any other popular science book.

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## **THE BOOK OF DISQUIET**

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*Profile Books* Sitting at his desk, Bernardo Soares imagined himself free forever of Rua dos Douradores, of his boss Vasques, of Moreira the book-keeper, of all the other employees, the errand boy, the post boy, even the cat. But if he left them all tomorrow and discarded the suit of clothes he wears, what else would he do? Because he would have to do something. And what suit would he wear? Because he would have to wear another suit. A self-deprecating reflection on the sheer distance between the loftiness of his feelings and the humdrum reality of his life, *The Book of Disquiet* is a classic of existentialist literature.

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## **MANITUANA**

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*Verso Books* 1775—The conflict between the British Empire and the American colonies erupts in all-out war. Rebels and loyalists to the British Crown compete for an alliance with the Six Nations of the Iroquois, the most powerful Indian confederation, boasting a constitution hundreds of years old. In the Mohawk River Valley, Native Americans and colonists have co-existed for generations. But as the thunder of war approaches and the United States struggles violently into existence, old bonds are broken, friends and families are split by betrayal, and this mixed community is riven by hatred and resentment. To save his threatened world, the Mohawk war chief Joseph Brant sets off in a restless journey that will take him from New York to the salons of Georgian London at the heart of the British Empire.

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## **THE YEARS OF ALIENATION IN ITALY**

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### **FACTORY AND ASYLUM BETWEEN THE ECONOMIC MIRACLE AND THE YEARS OF LEAD**

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*Springer* The Years of Alienation in Italy offers an interdisciplinary overview of the socio-political, psychological, philosophical, and cultural meanings that the notion of alienation took on in Italy between the 1960s and the 1970s. It addresses alienation as a social condition of estrangement caused by the capitalist system, a pathological state of the mind and an ontological condition of subjectivity. Contributors to the edited volume explore the pervasive influence this multifarious concept had on literature, cinema, architecture, and photography in Italy. The collection also theoretically reassesses the notion of alienation from a novel perspective, employing Italy as a paradigmatic case study in its pioneering role in the revolution of mental health care and factory work during these two decades.

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## **TEORIA E TECNICA DELLE STRUTTURE**

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### **PRELIMINARI E FONDAMENTI**

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*Edizioni Polistampa* First published in 1977 and reprinted several times after, the work by professor Piero Pozzati it's much more than a didactic book: it has become a reference text for many generations of young engineers. The new edition is loyal to the original book, with only few corrections. Contents: Recurrent external actions Introduction and bases linked to the calculation of the indeterminate static of structures

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## **VENTILAZIONE MECCANICA NON INVASIVA**

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### **COME, QUANDO E PERCHÉ**

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*Springer Science & Business Media* La crescita esponenziale dell'interesse per la ventilazione non invasiva (NIV) verificatasi negli ultimi 10-15 anni, non solo dal punto di vista clinico e applicativo, ma anche speculativo, ha pochi eguali nella recente storia della medicina. In Italia e in Europa in generale tale metodica è applicata su larga scala, prevalentemente nei reparti di Pneumologia e nelle Unità di Cure Intermedie Respiratorie, mentre per quanto riguarda la sua applicazione nei reparti di Terapia Intensiva Generale (UTI) i dati emersi da uno studio multicentrico condotto nei paesi francofoni vedono la NIV impiegata in una quantità di casi che rappresenta fino al 50% dei pazienti che richiedono assistenza ventilatoria. Il recente studio EUROVENT ha inoltre dimostrato come la NIV non si limiti alla sua applicazione "acuta", dal momento che circa 25.000 pazienti sono attualmente ventilati "in cronico" a domicilio. Inoltre, si calcola che milioni di cittadini europei soffrano attualmente di disturbi respiratori durante il sonno, e per molti di essi il trattamento medico di prima scelta è rappresentato dalla NIV. Questo libro si propone lo scopo di richiamare l'attenzione sulle più recenti acquisizioni in questo campo, con la speranza di fornire uno strumento valido e maneggevole per la scelta e l'impostazione della migliore modalità di ventilazione.

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## PHYSICS OF SEMICONDUCTOR DEVICES

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*Springer* This textbook describes the basic physics of semiconductors, including the hierarchy of transport models, and connects the theory with the functioning of actual semiconductor devices. Details are worked out carefully and derived from the basic physical concepts, while keeping the internal coherence of the analysis and explaining the different levels of approximation. Coverage includes the main steps used in the fabrication process of integrated circuits: diffusion, thermal oxidation, epitaxy, and ion implantation. Examples are based on silicon due to its industrial importance. Several chapters are included that provide the reader with the quantum-mechanical concepts necessary for understanding the transport properties of crystals. The behavior of crystals incorporating a position-dependent impurity distribution is described, and the different hierarchical transport models for semiconductor devices are derived (from the Boltzmann transport equation to the hydrodynamic and drift-diffusion models). The transport models are then applied to a detailed description of the main semiconductor-device architectures (bipolar, MOS, CMOS), including a number of solid-state sensors. The final chapters are devoted to the measuring methods for semiconductor-device parameters, and to a brief illustration of the scaling rules and numerical methods applied to the design of semiconductor devices.

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## ASYLUMS

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### ESSAYS ON THE SOCIAL SITUATION OF MENTAL PATIENTS AND OTHER INMATES

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*Routledge* A total institution is defined by Goffman as a place of residence and work where a large number of like-situated, individuals, cut off from the wider society for an appreciable period of time, together lead an enclosed, formally administered round of life. Prisons serve as a clear example, providing we appreciate that what is prison-like about prisons is found in institutions whose members have broken no laws. This volume deals with total institutions in general and, mental hospitals, in particular. The main focus is, on the world of the inmate, not the world of the staff. A chief concern is to develop a sociological version of the structure of the self. Each of the essays in this book were intended to focus on the same issue--the inmate's situation in an institutional context. Each chapter approaches the central issue from a different vantage point, each introduction drawing upon a different source in sociology and having little direct relation to the other chapters. This method of presenting material may be irksome, but it allows the reader to pursue the main theme of each paper analytically and comparatively past the point that would be allowable in chapters of an integrated book. If sociological concepts are to be treated with affection, each must be traced back to where it best applies, followed from there wherever it seems to lead, and pressed to disclose the rest of its family.

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## DYNAMICS OF STRUCTURES

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## **THEORY AND APPLICATIONS TO EARTHQUAKE ENGINEERING**

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This title is designed for senior-level and graduate courses in Dynamics of Structures and Earthquake Engineering. The new edition from Chopra includes many topics encompassing the theory of structural dynamics and the application of this theory regarding earthquake analysis, response, and design of structures. No prior knowledge of structural dynamics is assumed and the manner of presentation is sufficiently detailed and integrated, to make the book suitable for self-study by students and professional engineers.

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## **MANUFACTURING PROCESSES FOR ENGINEERING MATERIALS**

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Manufacturing Processes for Engineering Materials, Fourth Edition is a comprehensive text, written mainly for students in mechanical, industrial, and metallurgical and materials engineering programs. The text, as well as the numerous examples and case studies in each chapter, clearly show that manufacturing engineering is a complex and interdisciplinary subject. The topics are organized and presented in such a manner that they motivate and challenge students to present technically and economically viable solutions to a wide variety of questions and problems, including product design. Since the publication of the third edition, there have been rapid and significant advances in various areas in manufacturing. The fourth edition of Manufacturing Processes for Engineering Materials, while continuing with balanced coverage of the relevant fundamentals, analytical approaches, and applications, reflects these new advances. New in the Fourth Edition: \*A new Chapter 13 on fabrication of microelectronic and micromechanical devices. \*Expansion of design considerations in each chapter. r New examples and case studies throughout all chapters. \*A total of 1230 questions and problems; 32 per cen

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## **THE MIND-BRAIN RELATIONSHIP**

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*Other Press, LLC* The recent explosion of knowledge in neuroscience has enormous implications for the practice of psychoanalysis, and *The Mind-Brain Relationship* offers an indispensable introduction to the seemingly unfamiliar, intimidating, and yet exciting and essential field of neuropsychanalysis.

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## **MATHEMATICAL CHALLENGES FROM THEORETICAL/COMPUTATIONAL CHEMISTRY**

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*National Academies Press* Computational methods are rapidly becoming major tools of theoretical, pharmaceutical, materials, and biological chemists. Accordingly, the mathematical models and numerical analysis that underlie these methods have an increasingly important and direct role to play in the progress of many areas of chemistry. This book explores the research interface between computational chemistry and the mathematical sciences. In language that is aimed at non-specialists, it documents some prominent examples of past successful cross-fertilizations between the fields and explores the mathematical research opportunities in a broad cross-section of chemical research frontiers. It also discusses cultural differences between the two fields and makes recommendations

for overcoming those differences and generally promoting this interdisciplinary work.

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## **A STUDENT'S GUIDE TO MAXWELL'S EQUATIONS**

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*Cambridge University Press* Gauss's law for electric fields, Gauss's law for magnetic fields, Faraday's law, and the Ampere–Maxwell law are four of the most influential equations in science. In this guide for students, each equation is the subject of an entire chapter, with detailed, plain-language explanations of the physical meaning of each symbol in the equation, for both the integral and differential forms. The final chapter shows how Maxwell's equations may be combined to produce the wave equation, the basis for the electromagnetic theory of light. This book is a wonderful resource for undergraduate and graduate courses in electromagnetism and electromagnetics. A website hosted by the author at [www.cambridge.org/9780521701471](http://www.cambridge.org/9780521701471) contains interactive solutions to every problem in the text as well as audio podcasts to walk students through each chapter.

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## **STRUCTURES**

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*Prentice Hall* This text contains coverage of all the major topics of structural analysis in both a qualitative and quantitative manner. It is a useful resource for architects, constructors, and engineers, and is a great teaching tool for many courses at the graduate and undergraduate levels. This elegant presentation of physical principles founded in the field of mechanics can be used by designers and builders as an aid to understanding the behavior of existing structural forms and in devising new approaches. "New to this edition: " New, improved illustrations help clarify complex concepts. A revised accompanying CD with images and additional exercises. Added coverage of computer-based form-finding techniques for membrane structures.

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## **LINEAR CONTROL SYSTEM ANALYSIS AND DESIGN**

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## **SOLUTIONS MANUAL**

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## **ATOMS IN THE FAMILY**

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## **MY LIFE WITH ENRICO FERMI**

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*University of Chicago Press* In this absorbing account of life with the great atomic scientist Enrico Fermi, Laura Fermi tells the story of their emigration to the United States in the 1930s—part of the widespread movement of scientists from Europe to the New World that was so important to the development of the first atomic bomb. Combining intellectual biography and social history, Laura Fermi traces her husband's career from his childhood, when he taught himself physics, through his rise in the Italian university system concurrent with the rise of fascism, to his receipt of the Nobel Prize, which offered a perfect opportunity to flee the country without arousing official suspicion, and his odyssey to the United States.

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## **THE GEOMETRY OF SUPERMANIFOLDS**

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*Springer Science & Business Media* 'Et moi, ... • si favait III mmmment en revenir, One service mathematics has rendered the je n'y serais point aile:' human race. It has

put CXIUlmon sense back lules Verne where it belongs. on the topmost shelf next to the dUlty canister labelled 'discarded non- The series i. divergent; therefore we may be able to do something with it. Eric T. Bell O. Hesvi.ide Mathematics is a tool for thOUght. A highly necessary tool in a world where both feedback and non linearities abound. Similarly, all kinds of parts of mathematics serve as tools for other parts and for other sciences. Applying a simple rewriting rule to the quote on the right above one finds such statements as: 'One service topology has rendered mathematical physics .. .'; 'One service logic has rendered com puter science .. .'; 'One service category theory has rendered mathematics .. .'. All arguably true. And all statements obtainable this way form part of the raison d't!tre of this series.

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## **ESSENTIALS OF MARKETING COMMUNICATIONS**

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*Pearson Education* Essentials of Marketing Communications 3rd edition gives students a concise overview of the strategic and tactical decision-making processes involved in marketing communications. It also links the current theories of marketing communications to consumer behaviour issues as well as explaining how marketing communications works in the real world. The text is ideal for those studying marketing communications for the first time.

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## **ENTROPY AND INFORMATION IN SCIENCE AND PHILOSOPHY**

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*Elsevier Science & Technology*

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## **THE LOST NOTEBOOK OF ENRICO FERMI**

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## **THE TRUE STORY OF THE DISCOVERY OF NEUTRON-INDUCED RADIOACTIVITY**

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*Springer* This book tells the curious story of an unexpected finding that sheds light on a crucial moment in the development of physics: the discovery of artificial radioactivity induced by neutrons. The finding in question is a notebook, clearly written in Fermi's handwriting, which records the frenzied days and nights that Fermi spent experimenting alone, driven by his theoretical ideas on beta decay. The notebook was found by the authors while browsing through documents left by Oscar D'Agostino, the chemist among Fermi's group. From Fermi's notes, they reconstruct with skill and expertise the detailed timeline of the critical days leading up to his vital discovery. While much is already known about the road that led Fermi to his important result, this is the first time that it has been possible to reconstruct precisely when and how the initial evidence of neutron-induced decay was obtained. In relating this fascinating story, the book will be of great interest not only to those with a passion for the history of science but also to a wider audience.

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## **BRAVE NEW WORLD REVISITED**

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*Turtleback Books* Describes the shocking scientific devices and techniques available to any group in a position to manipulate society

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## INTERNAL COMBUSTION ENGINES

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*Società Editrice Esculapio* This book presents an energetic approach to the performance analysis of internal combustion engines, seen as attractive applications of the principles of thermodynamics, fluid mechanics and energy transfer. Paying particular attention to the presentation of theory and practice in a balanced ratio, the book is an important aid both for students and for technicians, who want to widen their knowledge of basic principles required for design and development of internal combustion engines. New engine technologies are covered, together with recent developments in terms of: intake and exhaust flow optimization, design and development of supercharging systems, fuel metering and spray characteristic control, fluid turbulence motions, traditional and advanced combustion process analysis, formation and control of pollutant emissions and noise, heat transfer and cooling, fossil and renewable fuels, mono- and multi-dimensional models of thermo-fluid-dynamic processes.

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## DE INGENEIS: TEXT

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*Penn State Press* English description: With the rediscovery of Mariano Taccola's technical manuscripts, a primary source has been found for drawings and texts in treatises and sketchbooks of Francesco di Giorgio Martini. Taccola first conceived a new subject in Renaissance literature: rational descriptions and illustrations of utilitarian structures built by master masons, carpenters, millwrights, and artisans in the service of military lords. Taccola's complex and fascinating manuscript is being published fully in facsimile. It was a gift to Johann Albrecht Widmannstetter who studied law (1533-1542) in Siena, probably at the Studio or University where Taccola had been secretary while writing in the building arts. The volume that Taccola entitled "Liber primus leonis" and "Liber secundis draconis" was modified into a "Notebook" when he, in 1435-1438, added many small sketches around each main drawing existing on a folio, and added quires of paper after Book II for additional and later drawings. This edition includes, in the editors' introduction, a short biography of Mariano Taccola, a history of his "Notebook", a description of its sections, an account of Taccola's contribution to the history of thechnology, and a study of his influencce. Each of Taccola's several hundred drawings is identified, his Latin texts and notes are all transcribed and then translated into English. In one Appendix, the editors illustrate and interpret eight drawings identified as copies of Taccola's originals lost from his "Notebook", and a second Appendix concerns the desings of mills, pile-drivers, and water-supply devices of a Machine Complex that other engineers developed from prototypes in Taccola's "Notebook". German description: Mit der Wiederentdeckung der technischen Handschriften Mariano Taccolas wurde auch die Quelle für die Zeichnungen und Texte in den Abhandlungen und Skizzenbüchern Francesco di Giorgio Martinis entdeckt. Taccola behandelte als erster ein neues Thema in der Renaissanceliteratur: die rationale Beschreibung und Illustration von Zweckbauten. Das Werk, das Taccola ursprünglich als "Liber primus leonis" und "Liber secundus draconis" angelegt hatte, bekam nach und nach den Charakter eines Notizbuchs, als den Hauptzeichnungen mehrere kleinere Skizzen hinzugefügt

und mehrere lose Blätter mit technischen Zeichnungen beigelegt wurden. Die Handschrift war ein Geschenk an Johann Albrecht Widmannstetter, der sich einige Jahre in Siena aufhielt. Aus der Sammlung dieses Humanisten gelangte sie anschliessend nach München. Die vorliegende Faksimileausgabe enthält neben einer kurzen Biographie Mariano Taccolas die Geschichte dieses Notizbuchs, eine Beschreibung der einzelnen Abschnitte sowie Taccolas Bedeutung für Wissenschaft und Technik der Renaissance. Jede der mehreren hundert Zeichnungen wird erläutert, Taccolas lateinische Beschreibungen der Maschinen werden in Transkription wiedergegeben und ins Englische übersetzt. Ein Anhang enthält die Zeichnungen zu Mühlen, Pfahlrammen und Entwürfen zu Wasserleitungssystemen, die später nach Taccolas Modellen aus dem "Notebook" entwickelt wurden.

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## **ADVANCES IN VIBRATION ANALYSIS RESEARCH**

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*BoD - Books on Demand* Vibrations are extremely important in all areas of human activities, for all sciences, technologies and industrial applications. Sometimes these Vibrations are useful but other times they are undesirable. In any case, understanding and analysis of vibrations are crucial. This book reports on the state of the art research and development findings on this very broad matter through 22 original and innovative research studies exhibiting various investigation directions. The present book is a result of contributions of experts from international scientific community working in different aspects of vibration analysis. The text is addressed not only to researchers, but also to professional engineers, students and other experts in a variety of disciplines, both academic and industrial seeking to gain a better understanding of what has been done in the field recently, and what kind of open problems are in this area.

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## **BRAVE NEW WORLD REVISITED**

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### **A NOVEL**

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*Harper Collins* When Aldous Huxley wrote his famous novel *Brave New World*, he did so with the sincere belief that the dystopian world he created was a true possibility given the direction of the social, political and economic world order. Written almost thirty years later, *Brave New World Revisited* is a re-evaluation of his predictions based on the changes he had witnessed in the meantime. In this twelve-part essay, Huxley argues that society is moving toward his dystopian vision even faster than he had originally assumed, and provides his own suggestions on how to bring an end to this decadent decline. *Brave New World Revisited* condemns symptoms of modern life such as overpopulation, propaganda and extreme government control while providing a staunch defence of individualism. Despite being published over fifty years ago, the problems identified in *Brave New World Revisited* are still startlingly relevant, lending a chilling creditability to Aldous Huxley's unsettling predictions. *HarperTorch* brings great works of non-fiction and the dramatic arts to life in digital format, upholding the highest standards in ebook production and celebrating reading in all its forms. Look for more titles in the *HarperTorch* collection to build your digital library.

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## ACOUSTIC MEASUREMENTS

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## MATHEMATICAL MODELS FOR ELASTIC STRUCTURES

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*Cambridge University Press* During the seventeenth century, several useful theories of elastic structures emerged, with applications to civil and mechanical engineering problems. Recent and improved mathematical tools have extended applications into new areas such as mathematical physics, geomechanics, and biomechanics. This book offers a critically filtered collection of the most significant theories dealing with elastic slender bodies. It includes mathematical models involving elastic structures that are used to solve practical problems with particular emphasis on nonlinear problems.

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## SOLO LEVELING, VOL. 2 (NOVEL)

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*Yen Press* With the help of the system, Jinwoo Sung has gone from the Weakest Hunter of All Mankind to...well, something else entirely! However, his situation hasn't gone unnoticed like he'd hoped and he's starting to attract some unwanted attention. As Jinwoo's abilities reach new heights, will he be able to continue leveling up in peace?

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## THE HYDROGEN REVOLUTION

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## A BLUEPRINT FOR THE FUTURE OF CLEAN ENERGY

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*Hachette UK* A Financial Times BEST BOOKS OF 2021 'Engaging, authoritative and very timely. Marco Alverà spells Hydrogen's critical role as an energy store in the clean power transition' - Mike Berners-Lee, author of THERE IS NO PLANET B Picture this: It's 2050. The looming shadow of climate change is finally receding. The planet's temperature is stabilising. Rainforests and coral reefs beginning to thrive once more. We are returning to equilibrium with nature. This isn't wishful thinking; it can be our reality. We just need to embrace hydrogen: the missing link. The beauty of hydrogen is its simplicity. It's simple to make, and simple to use. You are essentially bottling sunlight from renewable energy sources in the form of hydrogen, and using it to bring clean energy to every corner of the globe. The best part about hydrogen is that when you use it, the only by-product is water. As energy expert Marco Alverà explains, if we're going to heal the climate, we need to start thinking big. This book is the blueprint for how to get us there. Whether you are a policy maker, a business person, an activist, or simply curious, the message is this: there is hope, for us and our planet. Hydrogen can help save the world.

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## HISTORY OF ENGINEERING 2020

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## GEOLOGY OF THE NONMETALLICS

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## JUST TWO FINGERS. CAN YOU HEAR ME, MAJOR TOM?

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## **LETTERS ON FAMILIAR MATTERS**

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*Italica Press*

## **MAJORANA CASE, THE: LETTERS, DOCUMENTS, TESTIMONIES**

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*World Scientific Publishing Company* This is a translated version (from Italian) on Ettore Majorana, one of the brightest Italian theoretical physicists of the 20th century who disappeared mysteriously in 1938. He was part of Enrico Fermi's scientific team in the 1930s.