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Now in dynamic full color, SI ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING, 5e helps students develop the strong problem-solving skills and solid foundation in fundamental principles they will need to become analytical, detail-oriented, and creative engineers. The book opens with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to succeed. It then covers the basic physical concepts and laws that students will encounter on the job. Professional Profiles throughout the text highlight the work of practicing engineers from around the globe, tying in the fundamental principles and applying them to professional engineering. Using a flexible, modular format, the book demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This title explores the place of education in development debates and provides a systematic as well as a theoretical overview of the main

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approaches to education and development. It emphasises the fact that education is profoundly shaped by national and local cultures even if many issues are shared across institutions in different locations. Education and Development discusses different theoretical accounts from different disciplinary traditions to help students understand the complexity of the overall debate. The text does not shy away from discussions of education's negative impacts, and insists that an account of education must include consideration of early childhood development, adult, vocational and higher education, as well as the growing range of informal and distance forms. It includes chapters on human capital, human rights and human development, and on education, gender and development, and draws on examples from a wide range of countries and regions such as India, Hong Kong, Kenya and South Africa. The book has a well-developed pedagogy including text boxes, chapter summaries, key questions, links to websites and videos, and annotated further reading sections. Particular attention is paid to ensuring that a plurality of voices, contexts and educational sub-sectors are represented in the boxes, weblinks and references. Education and Development provides an introductory overview to the field, aimed at the undergraduate level, while critically engaging with key themes and questions. The book will also be of

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interest to development practitioners, policymakers, entrepreneurs and corporate employees engaged in aspects of education and development work.

When this book was first published, more than five years ago, I added an appendix on How the Pythagoreans discovered Proposition 11.5 of the 'Elements'. I hoped that this appendix, although different in some ways from the rest of the book, would serve to illustrate the kind of research which needs to be undertaken, if we are to acquire a new understanding of the historical development of Greek mathematics. It should perhaps be mentioned that this book is not intended to be an introduction to Greek mathematics for the general reader; its aim is to bring the problems associated with the early history of deductive science to the attention of classical scholars, and historians and philosophers of science. I should like to conclude by thanking my translator, Mr. A. M. Ungar, who worked hard to produce something more than a mechanical translation. Much of his work was carried out during the year which I spent at Stanford as a fellow of the Center for Advanced Study in the Behavioral Sciences. This enabled me to supervise the work of translation as it progressed. I am happy to express my gratitude to the Center for providing me with this opportunity.

Arpad Szabo

NOTE ON REFERENCES

The following books are frequently referred to in the notes. Unless otherwise stated, the editions are

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those given below. Burkert, W. Weisheit und Wissenschaft, Studien zu Pythagoras, Philolaos und Platon, Nuremberg 1962.

This book gathers selected high-quality research papers presented at International Conference on Advanced Computing and Intelligent Technologies (ICACIT 2021) held at NCR New Delhi, India, during March 2021, 2021, jointly organized by Galgotias University, India, and Department of Information Engineering and Mathematics Universita Di Siena, Italy. It discusses emerging topics pertaining to advanced computing, intelligent technologies, and networks including AI and machine learning, data mining, big data analytics, high-performance computing network performance analysis, Internet of things networks, wireless sensor networks, and others. The book offers a valuable asset for researchers from both academia and industries involved in advanced studies.

The third international conference on Information Systems Design and Intelligent Applications (INDIA – 2016) held in Visakhapatnam, India during January 8-9, 2016. The book covers all aspects of information system design, computer science and technology, general sciences, and educational research. Upon a double blind review process, a number of high quality papers are selected and collected in the book, which is composed of three different volumes, and covers a variety of topics,

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including natural language processing, artificial intelligence, security and privacy, communications, wireless and sensor networks, microelectronics, circuit and systems, machine learning, soft computing, mobile computing and applications, cloud computing, software engineering, graphics and image processing, rural engineering, e-commerce, e-governance, business computing, molecular computing, nano-computing, chemical computing, intelligent computing for GIS and remote sensing, bio-informatics and bio-computing. These fields are not only limited to computer researchers but also include mathematics, chemistry, biology, bio-chemistry, engineering, statistics, and all others in which computer techniques may assist.

This book explains in detail the diagnosis, management, and treatment of comorbid disorders in patients with autism spectrum disorders (ASD). Important insights are provided into the nature of the symptoms of psychiatric comorbidities in these patients, and particularly children and adolescents, with a view to assisting clinicians in reaching a correct diagnosis that will permit the implementation of appropriate treatment strategies, whether psychological or pharmacological. The full range of potential comorbidities is considered, including mood disorders, anxiety disorders, obsessive-compulsive disorder, schizophrenia spectrum and other psychotic disorders, eating disorders, disruptive

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behavioral disorders, Tourette's disorder, and substance-related disorders. In each case guidance is provided on how to avoid incorrectly attributing symptoms to ASD and on treatment options.

Psychiatric Comorbidities in Autism Spectrum Disorders will be of value to all practitioners who are confronted by patients with these complex co-occurring conditions.

It is fifteen years since Walker and Straw wrote the first edition of 'Spectroscopy' and considerable developments have taken place during that time in all fields of this expanding subject. In atomic spectroscopy, for example, where the principles required in a student text have been laid down for many years, there have been advances in optical pumping and double resonance which cannot be neglected at undergraduate level. In addition, nuclear quadrupole resonance (n.q.f.) and far infrared spectroscopy now merit separate chapters while additional chapters dealing with Mossbauer spectroscopy, photoelectron spectroscopy and group theory are an essential requisite for any modern spectroscopy textbook. When the idea for a new edition of Spectroscopy was first discussed it quickly became clear that the task of revision would be an impossible one for two authors working alone.

Consequently it was decided that the new edition be planned and co-ordinated by two editors who were to invite specialists, each of whom had experience of

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presenting their subject at an undergraduate level, to contribute a new chapter or to revise extensively an existing chapter. In this manner a proper perspective of each topic has been provided without any sacrifice of the essential character and unity of the first edition. The expansion of subject matter has necessitated the division of the complete work into three self contained volumes. Volume I includes atomic, n.m.f., n.q.f., e.s.r. and Mbssbauer spectroscopy.

Introduction to Policing, Third Edition continues to focus on the thought-provoking, contemporary issues that underscore the challenging and rewarding world of policing. Steven M. Cox, Susan Marchionna, and experienced law enforcement officer Brian D. Fitch balance theory, research, and practice to give students a comprehensive, yet concise, overview of both the foundations of policing and the expanded role of today's police officers. The accessible and engaging writing style, combined with stories from the field, make policing concepts and practices easy for students to understand and analyze. Unique coverage of policing in multicultural communities, the impact of technology on policing, and extensive coverage of policing strategies and procedures — such as those that detail the use of force — make this bestselling book a must-have for policing courses.

One common feature of new emerging technologies

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is the fusion of the very small (nano) scale and the large scale engineering. The classical environment provided by single scale theories, as for instance by the classical hydrodynamics, is not anymore satisfactory. The main challenge is to keep the important details while still be able to keep the overall picture and simplicity. It is the thermodynamics that addresses this challenge. Our main reason for writing this book is to explain such general viewpoint of thermodynamics and to illustrate it on a very wide range of examples.

Contents Levels of description Hamiltonian mechanics Irreversible evolution Reversible and irreversible evolution Multicomponent systems Contact geometry Appendix: Mathematical aspects

In the last few decades, Spectroscopy and its application dramatically diverted science in the direction of brand new era. This book reports on recent progress in spectroscopic technologies, theory and applications of advanced spectroscopy. In this book, we (INTECH publisher, editor and authors) have invested a lot of effort to include 20 most advanced spectroscopy chapters. We would like to invite all spectroscopy scientists to read and share the knowledge and contents of this book. The textbook is written by international scientists with expertise in Chemistry, Biochemistry, Physics, Biology and Nanotechnology many of which are active in research. We hope that the textbook will

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enhance the knowledge of scientists in the complexities of some spectroscopic approaches; it will stimulate both professionals and students to dedicate part of their future research in understanding relevant mechanisms and applications of chemistry, physics and material sciences.

Drawing on Frank G. Kerry's more than 60 years of experience as a practicing engineer, the *Industrial Gas Handbook: Gas Separation and Purification* provides from-the-trenches advice that helps practicing engineers master and advance in the field. It offers detailed discussions and up-to-date approaches to process cycles for cryogenic separation of air, adsorption processes for front-end air purification, and related process control and instrumentation. The book uses SI units in accordance with international industry and covers topics such as chronological development, industrial applications, air separation technologies, noble gases, front end purification systems, insulation, non-cryogenic separation, safety, cleaning for oxygen systems, economics, and product liquefaction, storage, and transportation. No other book currently available takes the practical approach of this book — they are either outdated, too theoretical, or narrow in focus. In a clear and effective presentation, *Industrial Gas Handbook: Gas Separation and Purification* covers the principles and applications of industrial

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gas separation and purification.

Electronic Inspection Copy available for instructors here `Management for Social Enterprise is a great introduction to the rich variety of social enterprises in the UK. It is also a useful tool to help us to build more effective social enterprises that really deliver on their missions by people who have hands on experience. This is just what the rapidly growing social enterprise sector needs, a management manual to help us take social enterprises to the next level by people who have hands on experience' - Sophi Tranchell, Managing Director of Divine Chocolate Ltd and Cabinet Office sponsored Social Enterprise Ambassador `The recent explosive growth in the number of social enterprises, their diverse and dynamic nature, and the upsurge in research about them all makes this a potentially bewildering field of knowledge to explore. This book provides a clear and timely guide to the management challenges involved in understanding and running social enterprises, and underlines why their unique nature requires something more than just standard business school wisdom' - Ken Peattie, Professor of Marketing and Strategy, Cardiff Business School, and Director of the ESRC Centre for Business Relationships, Accountability, Sustainability and Society `Provides a good introduction to the management of social enterprises touching on a broad range of topics and will help

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those involved in managing social enterprises and those trying to understand more about the sector. It draws on the experience of those who have worked in the social enterprise sector in a range of countries and are passionate about developing it' - Fergus Lyon, Professor of Enterprise and Organizations, Middlesex University

**Overviewing the key business topics required by social entrepreneurs, and managers in social enterprises**

**Management for Social Enterprise** covers strategy, finance, ethics, social accounting, marketing and people management. Written in direct, accessible language by a team of authors currently teaching and researching in this sector, each chapter is fully supported with learning resources. Chapters include brief overviews, further reading, suggested web resources and, importantly, international case studies, drawing on real-life business examples. This book is essential reading for students and practitioners of Social Entrepreneurship and Social Enterprise, but will also be of use to anyone with an interest in management, corporate responsibility, ethics or community studies. [Click here for the LJMU Social Enterprise Management web pages.](#)

This food-lover's delight presents exciting, innovative recipes from a well-known figure in the culinary world. Enjoy uniquely presented traditional African cuisine with international flair, all tied together by the common element of ingredients that are organic, natural and

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sustainable. Elegantly produced with full colour photographs throughout.

Shanti S. Gupta has made pioneering contributions to ranking and selection theory; in particular, to subset selection theory. His list of publications and the numerous citations his publications have received over the last forty years will amply testify to this fact. Besides ranking and selection, his interests include order statistics and reliability theory. The first editor's association with Shanti Gupta goes back to 1965 when he came to Purdue to do his Ph.D. He has the good fortune of being a student, a colleague and a long-standing collaborator of Shanti Gupta. The second editor's association with Shanti Gupta began in 1978 when he started his research in the area of order statistics. During the past twenty years, he has collaborated with Shanti Gupta on several publications. We both feel that our lives have been enriched by our association with him. He has indeed been a friend, philosopher and guide to us.

The authors, Elliott Morton Avedon and Brian Sutton-Smith are recognized authorities on the study of games. Elliott Morton Avedon was born on 28 April 1930 in Florida. He is the author of "Therapeutic Recreation Service: An Applied Behavioural Approach." Brian Sutton-Smith was born in Wellington, New Zealand in 1924. His academic career is focused on children's games, adult games, children's play, children's drama, films and narratives, as well as children's gender issues and sibling position. Brian Sutton-Smith is the author of some 50 books, the most recent of which is *The Ambiguity of*

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Play, and some 350 scholarly articles. He has been the President of The Anthropological Association for the Study of Play and of The American Psychological Association, Division g10 (Psychology and the Arts). As a founder of the Children's Folklore Society he has received a Lifetime Achievement Award from the American Folklore Society.

The book covers the Aircraft Energy Efficiency (ACEE), consisting of six aeronautical projects born out of the energy crisis of the 1970s and divided between the Lewis and Langley Research Centers in Ohio and Virginia.

Measuring Vulnerability to Natural Hazards presents a broad range of current approaches to measuring vulnerability. It provides a comprehensive overview of different concepts at the global, regional, national, and local levels, and explores various schools of thought. More than 40 distinguished academics and practitioners analyse quantitative and qualitative approaches, and examine their strengths and limitations. This book contains concrete experiences and examples from Africa, Asia, the Americas and Europe to illustrate the theoretical analyses. The authors provide answers to some of the key questions on how to measure vulnerability and they draw attention to issues with insufficient coverage, such as the environmental and institutional dimensions of vulnerability and methods to combine different methodologies. This book is a unique compilation of state-of-the-art vulnerability assessment and is essential reading for academics, students, policy makers, practitioners, and anybody else interested in

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understanding the fundamentals of measuring vulnerability. It is a critical review that provides important conclusions which can serve as an orientation for future research towards more disaster resilient communities.

This book will be useful for undergraduate & polytechnic students and as reference for all universities having Hotel Management BHM, BSc Catering, diploma & certificate courses. The aim of the book is to provide comprehensive information to students of Hotel Management or in any study of food and beverage. Most of the books available for study for professional courses are imported or contain only specific information. This book aims at providing complete information and will act as a handy reference book for the students.

This text provides a practical guide providing step-by-step protocol to design and develop vaccines. Chapters detail protocols for developing novel vaccines against infectious bacteria, viruses, fungi, and parasites for humans and animals. Volume 2: Vaccines for Veterinary Diseases includes vaccines for farm animals and fishes, vaccine vectors and production, vaccine delivery systems, vaccine bioinformatics, vaccine regulation and intellectual property. Written for the Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Vaccine Design: Methods and Protocols, Volume 2: Vaccines for Veterinary Diseases aims to ensure successful results in the further study of this vital field.

This book constitutes the refereed post-conference proceedings of the 4th EAI International Conference on

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Innovations and Interdisciplinary Solutions for Underserved Areas, InterSol 2020, held in Nairobi, Kenya, in March 2020. Due to the COVID-19 pandemic the conference is postponed to a later date in 2020. The 20 papers presented were selected from 44 submissions and issue different problems in underserved and unserved areas. They face problems in almost all sectors such as energy, water, communication, climate, food, education, transportation, social development, and economic growth.

This book was developed in order to deliver a unit standards-based curriculum that is in line with the National Qualifications-Framework (NQF).

First Published in 1998. Artificial intelligence is increasingly employed in all areas of human endeavor and industry.

Anticipating the needs of professionals, researchers, and students alike, International Dictionary of Artificial Intelligence defines and illustrates over 2,500 terms and provides detailed explanations of major concepts as well as topics in related disciplines. The Dictionary also contains an annotated bibliography and an extensive appendix of World Wide Web sites devoted to the latest trends and developments in the world of artificial intelligence.

A practical handbook rather than merely a chemistry reference, Szycher's Handbook of Polyurethanes, Second Edition offers an easy-to-follow compilation of crucial new information on polyurethane technology, which is irreplaceable in a wide range of applications. This new edition of a bestseller is an invaluable reference for technologists, marketers, suppliers, and academicians who require cutting-edge, commercially valuable data on the most advanced uses for polyurethane, one of the most important and complex specialty polymers. Internationally recognized expert Dr. Michael Szycher updates his bestselling industry "bible" with seven entirely new chapters and five that are revised and

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updated, this book summarizes vital contents from U.S. patent literature—one of the most comprehensive sources of up-to-date technical information. These patents illustrate the most useful technology discovered by corporations, universities, and independent inventors. Because of the wealth of information they contain, this handbook features many full-text patents, which are carefully selected to best illustrate the complex principles involved in polyurethane chemistry and technology. Features of this landmark reference include: Hundreds of practical formulations Discussion of the polyurethane history, key terms, and commercial importance An in-depth survey of patent literature Useful stoichiometric calculations The latest "green" chemistry applications A complete assessment of medical-grade polyurethane technology Not biased toward any one supplier's expertise, this special reference uses a simplified language and layout and provides extensive study questions after each chapter. It presents rich technical and historical descriptions of all major polyurethanes and updated sections on medical and biological applications. These features help readers better understand developmental, chemical, application, and commercial aspects of the subject. Includes entries for maps and atlases.

This is a bilingual dictionary of English phrasal verbs written specifically for Spanish-speaking learners of English. It covers over 6,000 British and American phrasal verbs, all with translations into Spanish. There are over 10,000 corpus-based translated examples showing verbs in context. There is extensive grammatical information on verb patterns. Pronunciation is provided for each verb. It is very user-friendly, with a clear layout and a guide to getting the most out of the dictionary.

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Edited by Antonio Anzueto, Yvonne Heijdra and John R. Hurst COPD is one of the most common diseases worldwide and is projected to be the third leading cause of death by 2020. But that does not mean it is easy to understand or manage. In everyday practice, pulmonologists face areas of controversy in COPD, for which evidence-based medicine is often unavailable. This ERS Monograph considers where the current controversies in COPD lie, discussing areas such as screening, premature birth, asthma–COPD overlap syndrome, treatment, rehabilitation and palliative care. This book will be of great interest to both clinicians and scientists, and aims to stimulate further discussion about this diverse and fascinating disease. "...contains a vast amount of information on the disease, its prevalence, signs and symptoms, diagnostic tests and treatment options. The book's format makes it quick and simple to find out what you need to know, and its size would make it easy to take to work for use in practice [...] invaluable for anyone working with patients with the disease."

Emma Vincent, Nursing Standard

Through 50 research-based recommendations and 100 teacher-tested instructional strategies any teacher can expand students intrinsic satisfaction in learning. There is a hardcover edition also available. The focus is on using the 150 strategies and ideas to increase students' intrinsic motivation, rather than relying on the reward/punishment extrinsic strategies typically used. For each strategy the author clearly defines the purpose, procedure, grade level, and content area of each strategy, then discusses variations for each strategy and

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shows how the strategies can be readily incorporated into your existing curriculum. The strategies focus on enhancing autonomy, increasing competence in all students, increasing belonging, enhancing self-esteem, and stimulating involvement and enjoyment with learning. K-12 Teachers. A Longwood Professional Book.

This book gathers high-quality, peer-reviewed research papers presented at the Second International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2019), held in Kiev, Ukraine on 26–27 January 2019, and jointly organized by the National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” and the International Research Association of Modern Education and Computer Science. The papers discuss state-of-the-art topics and advances in computer science; neural networks; pattern recognition; engineering techniques; genetic coding systems; deep learning and its medical applications; and knowledge representation and its applications in education. Given its scope, the book offers an excellent resource for researchers, engineers, management practitioners, and graduate and undergraduate students interested in computer science and its applications in engineering and education.

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