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A foreword for the present workshop proceedings cannot be provided without first looking at the larger context of the AMI conference in which the workshops were organized. The AMI 2007 conference has roots in preceding events, but in many respects, AMI can be called a novel conference format and hence a premiere. Among the several aims that inspired and shaped this new conference format, the following two are particularly worth considering: (1) to provide a forum for the ambient intelligence flavor of research on the Post-PC era of computer science, complementing the ubiquitous computing and pervasive computing flavors emphasized by already existing conferences; (2) to offer an event that attracts contributions from all over the globe yet emphasizes European strengths – with particular reference to the Information Society Technologies (IST) branch of the EU research framework programs (FPs), which carry the same label as the conference. The workshop organization chairs reflected these unique characteristics of the new AMI conference series in the call for workshop proposals using two corresponding measures: (1) by particularly soliciting workshops on in-depth topics corresponding to the above-mentioned ambient intelligence flavor of Post-PC research; (2) by offering two different workshop threads: one ‘usual’ thread for advanced topics (called “SW workshops”) and one thread for workshops related to concrete EU FP6 and FP7 projects (called “EU workshops”).

Language and Creativity has become established as a

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pivotal text for courses in English Language, Linguistics and Literacy. Creativity in language has conventionally been regarded as the preserve of institutionalised discourses such as literature and advertising, and individual gifted minds. In this ground-breaking book, bestselling author Ronald Carter explores the idea that creativity, far from being simply a property of exceptional people, is an exceptional property of all people. Drawing on a range of real examples of everyday conversations and speech, from flatmates in a student house and families on holiday to psychotherapy sessions and chat-lines, the book argues that creativity is an all-pervasive feature of everyday language. Using close analysis of naturally occurring language, taken from a unique 5 million word corpus, *Language and Creativity* reveals that speakers commonly make meanings in a variety of creative ways, in a wide range of social contexts and for a diverse set of reasons. This Routledge Linguistics Classic is here reissued with a new preface from the author, covering a range of key topics from e-language and internet discourse to English language teaching and world Englishes. *Language and Creativity* continues to build on the previous theories of creativity, offering a radical contribution to linguistic, literary and cultural theory. A must for anyone interested in the creativity of our everyday speech.

Prolonged life expectancy along with the increasing complexity of medicine and health services raises health costs worldwide dramatically. Whilst the smart health concept has much potential to support the concept of the emerging P4-medicine (preventive, participatory,

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predictive, and personalized), such high-tech medicine produces large amounts of high-dimensional, weakly-structured data sets and massive amounts of unstructured information. All these technological approaches along with “big data” are turning the medical sciences into a data-intensive science. To keep pace with the growing amounts of complex data, smart hospital approaches are a commandment of the future, necessitating context aware computing along with advanced interaction paradigms in new physical-digital ecosystems. The very successful synergistic combination of methodologies and approaches from Human-Computer Interaction (HCI) and Knowledge Discovery and Data Mining (KDD) offers ideal conditions for the vision to support human intelligence with machine learning. The papers selected for this volume focus on hot topics in smart health; they discuss open problems and future challenges in order to provide a research agenda to stimulate further research and progress. This compilation probably looks like one of the craziest things a human being could spend his or her time on. Yet nobody would wonder at someone taking a short walk every day - after twenty five years that person would have covered a surprisingly long distance. This is exactly the story behind this list, which appeared first as a few pages within the directory StarGuides (or whatever name it had at that time) and as a distinct sister publication since 1990. The idea behind this dictionary is to offer astronomers and related space scientists practical assistance in decoding the numerous abbreviations, acronyms, contractions and symbols which they might

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encounter in all aspects of the vast range of their professional activities, including traveling. Perhaps it is a bit paradoxical, but if scientists quickly grasp the meaning of an acronym solely in their own specific discipline, they will probably encounter more difficulties when dealing with adjacent fields. It is for this purpose that this dictionary might be most often used. Scientists might also refer to this compilation in order to avoid identifying a project by an acronym which already has too many meanings or confused definitions.

This book addresses conference topics such as information technology in the design and manufacture of engines; information technology in the creation of rocket space systems; aerospace engineering; transport systems and logistics; big data and data science; nano-modeling; artificial intelligence and smart systems; networks and communication; cyber-physical systems and IoE; and software engineering and IT infrastructure. The International Scientific and Technical Conference "Integrated Computer Technologies in Mechanical Engineering" - Synergetic Engineering (ICTM) was formed to bring together outstanding researchers and practitioners in the field of information technology, and whose work involves the design and manufacture of engines, creation of rocket space systems, and aerospace engineering, from all over the world to share their experiences and expertise. It was established by the National Aerospace University "Kharkiv Aviation Institute." The ICTM'2020 conference was held in Kharkiv, Ukraine on October 28-30, 2020. .

For the intermediate-level course, the Fifth Edition of this

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widely used text takes modern physics textbooks to a higher level. With a flexible approach to accommodate the various ways of teaching the course (both one- and two-term tracks are easily covered), the authors recognize the audience and its need for updated coverage, mathematical rigor, and features to build and support student understanding. Continued are the superb explanatory style, the up-to-date topical coverage, and the Web enhancements that gained earlier editions worldwide recognition. Enhancements include a streamlined approach to nuclear physics, thoroughly revised and updated coverage on particle physics and astrophysics, and a review of the essential Classical Concepts important to students studying Modern Physics.

The new edition reflects the progress of physics in both esoteric and pragmatic directions. A complete and detailed presentation, with modern applications, problems, and examples. Annotation copyright Book News, Inc. Portland, Or.

This book constitutes the refereed proceedings of the 7th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2016, held in Costa de Caparica, Portugal, in April 2016. The 53 revised full papers were carefully reviewed and selected from 112 submissions. The papers present selected results produced in engineering doctoral programs and focus on research, development, and application of cyber-physical systems. Research results and ongoing work are presented, illustrated and discussed in the following areas:

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enterprise collaborative networks; ontologies; Petri nets; manufacturing systems; biomedical applications; intelligent environments; control and fault tolerance; optimization and decision support; wireless technologies; energy: smart grids, renewables, management, and optimization; bio-energy; and electronics.

This book offers the first strong evidence of the existence of CP violation in neutral B decays extracted from sophisticated B factories in the US and Japan. It also holds out the expectation of rare B decays and D, K physics in the near future. In addition, new physics beyond the Standard Model is described. Both experimental and theoretical points of view are given.

Professionals and students in any geology-related field will find this an essential reference. It clearly and systematically explains underground engineering geology principles, methods, theories and case studies.

The authors lay out engineering problems in underground rock engineering and how to study and solve them. The book specially emphasizes mechanical and hydraulic couplings in rock engineering for wellbore stability, mining near aquifers and other underground structures where inflow is a problem.

For upper-level undergraduates and graduate students: an introduction to the fundamentals of quantum mechanics, emphasizing aspects essential to an understanding of solid-state theory. Numerous problems (and selected answers), projects, exercises.

The two volume set LNCS 9758 and 9759, constitutes the refereed proceedings of the 15th International Conference on Computers Helping People with Special

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Needs, ICCHP 2015, held in Linz, Austria, in July 2016. The 115 revised full papers and 48 short papers presented were carefully reviewed and selected from 239 submissions. The papers included in the first volume are organized in the following topical sections: Art Karshmer lectures in access to mathematics, science and engineering; technology for inclusion and participation; mobile apps and platforms; accessibility of web and graphics; ambient assisted living (AAL) for aging and disability; the impact of PDF/UA on accessible PDF; standard tools and procedures in accessible e-book production; accessible e-learning – e-learning for accessibility/AT; inclusive settings, pedagogies and approaches in ICT-based learning for disabled and non-disabled people; digital games accessibility; user experience and emotions for accessibility (UEE4A). Financial Analytics with R sharpens readers' skills in time-series, forecasting, portfolio selection, covariance clustering, prediction, and derivative securities. This book serves as a single-source reference to the state-of-the-art in Internet of Things (IoT) platforms, services, tools, programming languages, and applications. In particular, the authors focus on IoT-related requirements such as low-power, time-to-market, connectivity, reliability, interoperability, security, and privacy. Authors discuss the question of whether we need new IoT standardization bodies or initiatives, toward a fully connected, cyber-physical world. Coverage includes the research outcomes of several, current European projects related to IoT platforms, services, APIs, tools, and applications.

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Efficient transmission and distribution of electricity is a fundamental requirement for sustainable development and prosperity. The world is facing great challenges regarding the reliable grid integration of renewable energy sources in the 21st century. The electric power systems of the future require fundamental innovations and enhancements to meet these challenges. The European Union's "Smart Grid" vision provides a first overview of the appropriate deep-paradigm changes in the transmission, distribution and supply of electricity. The book brings together common themes beginning with Smart Grids and the characteristics of new power plants based on renewable energy and /or highly efficient generation principles. It covers the advanced technologies applied today in the transmission and distribution networks and innovative solutions for maintaining today's high power quality under the challenging conditions of large-scale shares of volatile renewable energy sources in the annual energy balance. Besides considering the new primary and secondary technology solutions and control facilities for the transmission and distribution networks, prospective market conditions allowing network operators and the network users to gain benefits are also discussed. The growing role of information and communication technologies is investigated. The importance of new standards is underlined and the current international efforts in developing a consistent set of standards are described in detail. The presentation of international experiences to apply novel Smart Grid solutions to the practice of network operation concludes this book. The

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authors of the book worked for many years to develop Smart Grid solutions within national and international projects and to introduce them in the practice of network operations.

Using clear and accessible language this book examines the growing field of 'smart technology' for the home.

The author first introduces the field before exploring the various background issues, including how the home differs from other environments. He then shows how these background issues affect the design and usability of these technologies. A detailed case study looks at the use of handheld and wearable digital technology in sheltered housing. The last section examines what it is like to live in a smart home and why they have so far failed to reach the levels of success originally predicted. Invaluable reading for anybody interested in designing smart technologies for the home.

The two-volume set LNCS 12376 and 12377 constitutes the refereed proceedings of the 17th International Conference on Computers Helping People with Special Needs, ICCHP 2020, held in Lecco, Italy, in September 2020. The conference was held virtually due to the COVID-19 pandemic. The 104 papers presented were carefully reviewed and selected from 206 submissions. Included also are 13 introductions. The papers are organized in the following topical sections: Part I: user centred design and user participation in inclusive R&D; artificial intelligence, accessible and assistive technologies; XR accessibility – learning from the

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past, addressing real user needs and the technical architecture for inclusive immersive environments; serious and fun games; large-scale web accessibility observatories; accessible and inclusive digital publishing; AT and accessibility for blind and low vision users; Art Karshmer lectures in access to mathematics, science and engineering; tactile graphics and models for blind people and recognition of shapes by touch; and environmental sensing technologies for visual impairment Part II: accessibility of non-verbal communication: making spatial information accessible to people with disabilities; cognitive disabilities and accessibility – pushing the boundaries of inclusion using digital technologies and accessible eLearning environments; ICT to support inclusive education – universal learning design (ULD); hearing systems and accessories for people with hearing loss; mobile health and mobile rehabilitation for people with disabilities: current state, challenges and opportunities; innovation and implementation in the area of independent mobility through digital technologies; how to improve interaction with a text input system; human movement analysis for the design and evaluation of interactive systems and assistive devices; and service and care provision in assistive environments 10 chapters are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

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The Wiley Classics Library consists of selected books that have become recognized classics in their respective fields. With these new unabridged and inexpensive editions, Wiley hopes to extend the life of these important works by making them available to future generations of mathematicians and scientists. Currently available in the Series: T. W. Anderson *The Statistical Analysis of Time Series* T. S. Arthanari & Yadolah Dodge *Mathematical Programming in Statistics* Emil Artin *Geometric Algebra* Norman T. J. Bailey *The Elements of Stochastic Processes with Applications to the Natural Sciences* Robert G. Bartle *The Elements of Integration and Lebesgue Measure* George E. P. Box & Norman R. Draper *Evolutionary Operation: A Statistical Method for Process Improvement* George E. P. Box & George C. Tiao *Bayesian Inference in Statistical Analysis* R. W. Carter *Finite Groups of Lie Type: Conjugacy Classes and Complex Characters* R. W. Carter *Simple Groups of Lie Type* William G. Cochran & Gertrude M. Cox *Experimental Designs, Second Edition* Richard Courant *Differential and Integral Calculus, Volume I* Richard Courant *Differential and Integral Calculus, Volume II* Richard Courant & D. Hilbert *Methods of Mathematical Physics, Volume I* Richard Courant & D. Hilbert *Methods of Mathematical Physics, Volume II* D. R. Cox *Planning of Experiments* Harold S. M. Coxeter *Introduction to Geometry, Second Edition* Charles

W. Curtis & Irving Reiner Representation Theory of Finite Groups and Associative Algebras Charles W. Curtis & Irving Reiner Methods of Representation Theory with Applications to Finite Groups and Orders, Volume I Charles W. Curtis & Irving Reiner Methods of Representation Theory with Applications to Finite Groups and Orders, Volume II Cuthbert Daniel Fitting Equations to Data: Computer Analysis of Multifactor Data, Second Edition Bruno de Finetti Theory of Probability, Volume I Bruno de Finetti Theory of Probability, Volume 2 W. Edwards Deming Sample Design in Business Research

The Symposium on Ubiquitous Computing and Ambient Intelligence (UCAmI) began as a workshop held in 2003 in San Sebastián (Spain) under the Spanish Artificial Intelligence Conference. This event gathered 32 attendees and 18 papers were presented. The second edition, already as a Symposium, took place in Granada (Spain) under the first Spanish Computer Science Conference (CEDI). Later, in 2006, a second workshop was celebrated in Ciudad Real and, in 2007; the second Symposium was organized in Zaragoza by the CEDI conference. Now we continue to work on the organization of this event in Salamanca, a beautiful Spanish city. The European Community and the Sixth and Seventh Framework Programs - encourage researchers to explore the generic scope of the Aml vision. In fact, some researchers have a crucial role

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in this vision. Emile Aarts from Philips describes Ambient Intelligence as "the integration of technology into our environment, so that people can freely and interactively utilize it". This idea agrees with the proposal of Mark Weiser regarding the Ubiquitous Computing paradigm.

This introductory graduate text is based on a graduate course the author has taught repeatedly over the last ten years to students in applied mathematics, engineering sciences, and physics. Each chapter begins with an introductory development involving ordinary differential equations, and goes on to cover such traditional topics as boundary layers and multiple scales. However, it also contains material arising from current research interest, including homogenisation, slender body theory, symbolic computing, and discrete equations. Many of the excellent exercises are derived from problems of up-to-date research and are drawn from a wide range of application areas.

Enterprise Networks and Logistics for Agile Manufacturing presents a focused collection of quality chapters on state-of-the-art research efforts in the areas of enterprise networks and logistics, as well as their practical applications towards agile manufacturing. With the increasing decentralisation of manufacturing systems and outsourcing of processes, more robust and practical approaches

and systems are needed to support agile manufacturing operations. Enterprise Networks and Logistics for Agile Manufacturing consists of two major sections: the first presents a broad-based review of the key areas of research in enterprise networks and logistics; the second focuses on an in-depth treatment of a particular methodology or system relevant to the book title. Examples include:

- sustainable green supply chain;
- value creation and supplier selection;
- extended enterprise network management;
- reverse logistics; and
- innovative supply chain systems.

The authors take into account the need to pose intellectual challenges while retaining a balanced approach in terms of scope versus depth and theory versus applications. Enterprise Networks and Logistics for Agile Manufacturing can be beneficial to academic researchers, practicing engineers and managers, and graduate students with an interest in any manufacturing sectors. It can enable them to better understand the present state and future trends of research in this important area, in order to position themselves strategically for future challenges as we enter the era of agile and distributed manufacturing. While the history of musical instruments is nearly as old as civilisation itself, the science of acoustics is quite recent. By understanding the physical basis of how instruments are used to make music, one hopes ultimately to be able to give physical criteria to

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distinguish a fine instrument from a mediocre one. At that point science may be able to come to the aid of art in improving the design and performance of musical instruments. As yet, many of the subtleties in musical sounds of which instrument makers and musicians are aware remain beyond the reach of modern acoustic measurements. This book describes the results of such acoustical investigations - fascinating intellectual and practical exercises. Addressed to readers with a reasonable grasp of physics who are not put off by a little mathematics, this book discusses most of the traditional instruments currently in use in Western music. A guide for all who have an interest in music and how it is produced, as well as serving as a comprehensive reference for those undertaking research in the field.

Similarities, differences, advantages and limitations of perturbation techniques are pointed out concisely. The techniques are described by means of examples that consist mainly of algebraic and ordinary differential equations. Each chapter contains a number of exercises.

"Chemistry from First Principles" examines the appearance of matter in its most primitive form. It features the empirical rules of chemical affinity that regulate the synthesis and properties of molecular matter, analyzes the compatibility of the theories of chemistry with the quantum and relativity theories of

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physics, formulates a consistent theory based on clear physical pictures and manageable mathematics to account for chemical concepts such as the structure and stability of atoms and molecules. This text also explains the self-similarity between space-time, nuclear structure, covalent assembly, biological growth, planetary systems, and galactic conformation.

This book presents a series of significant methods and examples for the design of sustainable intelligent facades in a variety of contexts. Emphasis is placed on how intelligence has been applied for successful energy-saving efforts in the planning of building envelopes. Readers will find essential information on the core principles involved in designing, calculating and organizing intelligent facades according to the need for a new or retrofitted building. Not only are different materials and technologies considered, but also efficient ways to combine them according to user needs and other project-specific constraints. Illustrations, tables and graphs accompany the text, clarifying the concepts discussed.

Architects, facade consultants and all those interested in and energy-saving measures and improved indoor comfort will find this book useful not only as an introduction to the subject but also as a guide to achieving more responsive building methods.

This revised and updated second edition details the vast progress that has been achieved in the understanding of the physical mechanisms of rogue wave phenomenon in recent years. The selected articles address such issues as the formation of rogue waves due to modulational instability of nonlinear wave field, physical and statistical properties of extreme ocean wave generation in deep water as well as in

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shallow water, various models of nonlinear water waves, special analysis of nonlinear resonances between water waves and the relation between in situ observations, experimental data and rogue wave theories. In addition, recent results on tsunami waves due to subaerial landslides are presented. This book is written for specialists in the fields of fluid mechanics, applied mathematics, nonlinear physics, physical oceanography and geophysics, and for students learning these subjects.

About The Book: A revision of a successful junior/senior level text, this introduction to elementary quantum mechanics clearly explains the properties of the most important quantum systems. The book emphasizes the applications of theory, and contains new material on particle physics, electron-positron annihilation in solids and the Mossbauer effect. It includes new appendices on such topics as crystallography, Fourier Integral Description of a Wave Group, and Time-Independent Perturbation Theory.

An engagingly-written account of mathematical tools and ideas, this book provides a graduate-level introduction to the mathematics used in research in physics. The first half of the book focuses on the traditional mathematical methods of physics – differential and integral equations, Fourier series and the calculus of variations. The second half contains an introduction to more advanced subjects, including differential geometry, topology and complex variables. The authors' exposition avoids excess rigor whilst explaining subtle but important points often glossed over in more elementary texts. The topics are illustrated at every stage by carefully chosen examples, exercises and problems drawn from realistic physics settings. These make it useful both as a textbook in advanced courses and for self-study. Password-protected solutions to the exercises are available to instructors at www.cambridge.org/9780521854030.

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Distributions in the Physical and Engineering Sciences is a comprehensive exposition on analytic methods for solving science and engineering problems. It is written from the unifying viewpoint of distribution theory and enriched with many modern topics which are important for practitioners and researchers. The goal of the books is to give the reader, specialist and non-specialist, useable and modern mathematical tools in their research and analysis. Volume 2: Linear and Nonlinear Dynamics of Continuous Media continues the multivolume project which endeavors to show how the theory of distributions, also called the theory of generalized functions, can be used by graduate students and researchers in applied mathematics, physical sciences, and engineering. It contains an analysis of the three basic types of linear partial differential equations--elliptic, parabolic, and hyperbolic--as well as chapters on first-order nonlinear partial differential equations and conservation laws, and generalized solutions of first-order nonlinear PDEs. Nonlinear wave, growing interface, and Burger's equations, KdV equations, and the equations of gas dynamics and porous media are also covered. The careful explanations, accessible writing style, many illustrations/examples and solutions also make it suitable for use as a self-study reference by anyone seeking greater understanding and proficiency in the problem solving methods presented. The book is ideal for a general scientific and engineering audience, yet it is mathematically precise.

Features · Application oriented exposition of distributional (Dirac delta) methods in the theory of partial differential equations. Abstract formalism is kept to a minimum. · Careful and rich selection of examples and problems arising in real-life situations. Complete solutions to all exercises appear at the end of the book. · Clear explanations, motivations, and illustration of all necessary mathematical concepts.

This text advances from the basic laws of electricity and

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magnetism to classical electromagnetism in a quantum world. The treatment focuses on core concepts and related aspects of math and physics. 2016 edition.

Publisher Description

Since 1994, the European Conferences of Product and Process Modelling (www.ecppm.org) have provided a review of research, development and industrial implementation of product and process model technology in the Architecture, Engineering, Construction and Facilities Management (AEC/FM) industry. Product/Building Information Modelling has matured significantly in the last few years and has never been closer to having a permanent impact on the AEC/FM industry as a mainstream technology. In this context the 9th European Conference of Product and Process Modelling provided a forum for leading experts to discuss the latest achievements, emerging trends and future directions in product and process modelling technology in this dynamic and fragmented industry, focusing on integrated project working, value-based life cycle management and intelligent and sustainable buildings and construction. eWork and eBusiness in Architecture, Engineering and Construction 2012 provides a comprehensive overview of topics including BIM in all life-cycle stages, ICT for energy efficiency, smart buildings and environmental performance, energy and building simulation, knowledge and semantic modelling, visualization technologies as well as tools and methods to support innovations in design and construction processes. It further includes the proceedings of the 3rd Workshop on eeBuildings Data Models (Energy Efficiency Vocabularies), which aim to identify ICT Energy Efficiency Vocabularies and Ontologies to foster interoperability of Energy Efficiency Management Systems. eWork and eBusiness in Architecture, Engineering and Construction 2012 will be of interest to academics and professionals working in the interdisciplinary

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area of information technology in architecture, engineering and construction.

19 Urban Questions: Teaching in the City, the definitive overview of urban education, is provocative in style and rich in detail. Emphasizing the complexity of urban education, Steinberg, Kincheloe, and the authors ask direct questions about what urban teachers need to know. Their answers are guaranteed to generate both classroom discussion and discourse in the field for years to come. This is a volume that should be used in every school of education. Important topics include: difference in urban education; motives for teaching in city settings; understanding and dealing with dropouts; the role of counseling in urban schools; identifying resistance in urban settings; gangs and gang membership; evaluation and assessment; unique issues relating to disabilities; bilingual education; unique issues in urban literacy; urban students and the writing process; technology in urban classrooms; the value of teaching science in urban settings; the role of aesthetics in city schools; health risks among city students; understanding the urban family.

The 1980s have witnessed a tremendous growth in the field of computer integrated manufacturing systems. The other major areas of development have been computer-aided design, computer-aided manufacturing, industrial robotics, automated assembly, cellular and modular material handling, computer networking and office automation to name just a few. These new technologies are generally capital intensive and do not conform to traditional cost structures. The net result is a tremendous

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change in the way costs should be estimated and economic analyses performed. The majority of existing engineering economy texts still profess application of traditional analysis methods. But, as was mentioned above, it is clear that the basic trend in manufacturing industries is itself changing. So it is quite obvious that the practice of traditional economic analysis methods should change too. This book is an attempt to address the various issues associated with non-traditional methods for evaluation of advanced computer-integrated technologies. This volume consists of twenty refereed articles which are grouped into five parts. Part one, Economic Justification Methods, consists of six articles. In the first paper, Soni et al. present a new classification for economic justification methods for advanced automated manufacturing systems. In the second, Henghold and LeClair look at strengths and weaknesses of expert systems in general and more specifically, an application aimed at investment justification in advanced technology. The third paper, by Carrasco and Lee, proposes an enhanced economic methodology to improve the needs analysis, conceptual design and detailed design activities associated with technology modernization.

This book constitutes the thoroughly refereed post-conference proceedings of the third International Symposium on Intelligent Systems Technologies and Applications (ISTA'17), September 13-16, 2017, Manipal, Karnataka, India. All submissions were evaluated on the basis of their significance, novelty, and technical quality. This proceedings contains 34 papers

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selected for presentation at the Symposium.

This text presents the statistical theory of wave scattering and quantum transport in complex - chaotic and disordered - systems.

With about 200,000 entries, StarBriefs Plus represents the most comprehensive and accurately validated collection of abbreviations, acronyms, contractions and symbols within astronomy, related space sciences and other related fields. As such, this invaluable reference source (and its companion volume, StarGuides Plus) should be on the reference shelf of every library, organization or individual with any interest in these areas. Besides astronomy and associated space sciences, related fields such as aeronautics, aeronomy, astronautics, atmospheric sciences, chemistry, communications, computer sciences, data processing, education, electronics, engineering, energetics, environment, geodesy, geophysics, information handling, management, mathematics, meteorology, optics, physics, remote sensing, and so on, are also covered when justified. Terms in common use and/or of general interest have also been included where appropriate.

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