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KEY=OF - LIZETH ALEENA

Springer Nature

Research on e-Learning and ICT in Education

Springer **This book aims to serve as a multidisciplinary forum covering technical, pedagogical, organizational, instructional, as well as policy aspects of ICT in Education and e-Learning. Special emphasis is given to applied research relevant to educational practice guided by the educational realities in schools, colleges, universities and informal learning organizations. In a more generic scope, the volume aims to encompass current trends and issues determining ICT integration in practice, including learning and teaching, curriculum and instructional design, learning media and environments, teacher education and professional development, assessment and evaluation, etc.**

Artificial Intelligence and Smart Agriculture Technology

"This book explores the application use of machine learning and artificial intelligence in smart agriculture by Identifying and describing functional and non-functional technologies. It identifies and discusses smart agriculture capabilities and conceptual prototypes, as well as demonstrates critical technological solutions"--

Developments in Wireless Network Prototyping, Design, and Deployment: Future Generations

Future Generations

<u>IGI Global</u> **"This book highlights the current design issues in wireless networks, informing scholars and practitioners about advanced prototyping innovations in this field"--**

Differential and Integral Calculus

<u>John Wiley & Sons</u> **The classic introduction to the fundamentals of calculus Richard Courant's classic text Differential and Integral Calculus is an essential text for those preparing for a career in physics or applied math. Volume 1 introduces the foundational concepts of "function" and "limit", and offers detailed explanations that illustrate the "why" as well as the "how". Comprehensive coverage of the basics of integrals and differentials includes their applications as well as clearly-defined techniques and essential theorems. Multiple appendices provide supplementary explanation and author notes, as well as solutions and hints for all in-text problems.**

Research on E-Learning and ICT in Education

Technological, Pedagogical and Instructional Perspectives

<u>Springer Nature</u> **This volume includes contributions based on selected full papers presented at the 11th Pan-Hellenic and International Conference "ICT in Education", held in Greece in 2018. The volume includes papers covering technical, pedagogical, organizational, instructional, as well as policy aspects of ICT in Education and e-Learning. Special emphasis is given to applied research relevant to the educational practice guided by the educational realities in schools, colleges, universities and informal learning organizations. This volume encompasses current trends, perspectives, and approaches determining e-Learning and ICT integration**

in practice, including learning and teaching, curriculum and instructional design, learning media and environments, teacher education and professional development. It is based on research work originally presented at the conference, but the call for chapters was open and disseminated to the international community attracting also international contributions.

Computational Intelligence for Managing Pandemics

Walter de Gruyter GmbH & Co KG **This book uncovers the stakes and possibilities of handling pandemic diseases with the help of Computational Intelligence, using cases and applications from the current Covid-19 pandemic. The book chapters will focus on the application of CI and its related fields in managing different aspects of Covid-19, including modelling of the disease spread, data-driven prediction, identification of disease hotspots, and medical decision support.**

Negotiating Climate Change in Crisis

Open Book Publishers **Climate change negotiations have failed the world. Despite more than thirty years of high-level, global talks on climate change, we are still seeing carbon emissions rise dramatically. This edited volume, comprising leading and emerging scholars and climate activists from around the world, takes a critical look at what has gone wrong and what is to be done to create more decisive action. Composed of twenty-eight essays—a combination of new and republished texts—the anthology is organised around seven main themes: paradigms; what counts?; extraction; dispatches from a climate change frontline country; governance; finance; and action(s). Through this multifaceted approach, the contributors ask pressing questions about how we conceptualise and respond to the climate crisis, providing both 'big picture' perspectives and more focussed case studies. This unique and extensive collection will be of great value to environmental and social scientists alike, as well as to the general reader interested in understanding current views on the climate crisis.**

Designing Sustainable

Technologies, Products and Policies

From Science to Innovation

Springer **This open access book provides insight into the implementation of Life Cycle approaches along the entire business value chain, supporting environmental, social and economic sustainability related to the development of industrial technologies, products, services and policies; and the development and management of smart agricultural systems, smart mobility systems, urban infrastructures and energy for the built environment. The book is based on papers presented at the 8th International Life Cycle Management Conference that took place from September 3-6, 2017 in Luxembourg, and which was organized by the Luxembourg Institute of Science and Technology (LIST) and the University of Luxembourg in the framework of the LCM Conference Series.**

Optimum Structural Design

Theory and Applications

John Wiley & Sons Incorporated

Outdoor Learning in the Early Years

Management and Innovation

Routledge **This book offers a complete guide to outdoor play, provision and learning in the Early Years and beyond.**

Proceedings of International Joint Conference on Computational Intelligence

IJCCI 2018

Springer **This book gathers outstanding research papers presented at the International Joint Conference on Computational Intelligence (IJCCI 2018), which was held at Daffodil International University on 14–15 December 2018. The topics covered include: collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software,**

robotics, data science, data security, big data analytics, and signal and natural language processing.

Wind Power Generation and Wind Turbine Design

WIT Press **The purpose of this book is to provide engineers and researchers in both the wind power industry and energy research community with comprehensive, up-to-date, and advanced design techniques and practical approaches. The topics addressed in this book involve the major concerns in the wind power generation and wind turbine design.**

Innovative Strategies in Technical and Vocational Education and Training for Accelerated Human Resource Development in South Asia: Bangladesh

Bangladesh

Asian Development Bank **This publication is part of a series of six country reports on technical and vocational education and training (TVET) and higher education in Bangladesh, Nepal, and Sri Lanka. Each report presents current arrangements and initiatives in the respective country's skills development strategies. These are complemented by critical analyses to determine key issues, challenges, and opportunities for innovative strategies toward global competitiveness, increased productivity, and inclusive growth. The emphasis is to make skills training more relevant, efficient, and responsive to emerging domestic and international labor markets. The reports were finalized in 2013 under the Australian AID-supported Phase 1 of Subproject 11 (Innovative Strategies for Accelerated Human Resource Development) of Regional Technical Assistance 6337 (Development Partnership Program for South Asia).**

Basic Graph Theory

Springer **This undergraduate textbook provides an introduction to graph theory, which has numerous applications in modeling problems in science and technology, and has become a vital component to computer science,**

computer science and engineering, and mathematics curricula of universities all over the world. The author follows a methodical and easy to understand approach. Beginning with the historical background, motivation and applications of graph theory, the author first explains basic graph theoretic terminologies. From this firm foundation, the author goes on to present paths, cycles, connectivity, trees, matchings, coverings, planar graphs, graph coloring and digraphs as well as some special classes of graphs together with some research topics for advanced study. Filled with exercises and illustrations, Basic Graph Theory is a valuable resource for any undergraduate student to understand and gain confidence in graph theory and its applications to scientific research, algorithms and problem solving.

Recent Developments in Railway Track and Transportation Engineering

Proceedings of the 1st GeoMEast International Congress and Exhibition, Egypt 2017 on Sustainable Civil Infrastructures

Springer **This volume brings together scientific experts in different areas that contribute to the Railway Track & Transportation Engineering challenges, evaluate the State-of-the-Art, identify the shortcomings and opportunities for research and promote the interaction with the industry. In particular, scientific topics that are addressed in this volume include railway ballasted track degradation/settlement problems and stabilization/reinforcement technologies, switches and crossings and related derailments causes, train-induced vibrations and mitigation measures, operations, management and performance of ground transportation, and traffic congestion and safety procedures. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.**

Data Science for COVID-19 Volume 1

Computational Perspectives

Academic Press **Data Science for COVID-19 presents leading-edge research on data science techniques for the detection, mitigation, treatment and elimination of COVID-19. Sections provide an introduction to data science for COVID-19 research, considering past and future pandemics, as well as related Coronavirus variations. Other chapters cover a wide range of Data Science applications concerning COVID-19 research, including Image Analysis and Data Processing, Geoprocessing and tracking, Predictive Systems, Design Cognition, mobile technology, and telemedicine solutions. The book then covers Artificial Intelligence-based solutions, innovative treatment methods, and public safety. Finally, readers will learn about applications of Big Data and new data models for mitigation. Provides a leading-edge survey of Data Science techniques and methods for research, mitigation and treatment of the COVID-19 virus Integrates various Data Science techniques to provide a resource for COVID-19 researchers and clinicians around the world, including both positive and negative research findings Provides insights into innovative data-oriented modeling and predictive techniques from COVID-19 researchers Includes real-world feedback and user experiences from physicians and medical staff from around the world on the effectiveness of applied Data Science solutions**

Proceedings of International Conference on Trends in Computational and Cognitive Engineering

Proceedings of TCCE 2020

Springer Nature **This book presents various computational and cognitive modeling approaches in the areas of health, education, finance, environment, engineering, commerce, and industry. It is a collection of selected conference papers presented at the International Conference on Trends in Computational and Cognitive Engineering (TCCE 2020). It shares cutting-edge insights and ideas from mathematicians, engineers,**

scientists, and researchers and discusses fresh perspectives on problem solving in a range of research areas.

Intelligent Manufacturing and Energy Sustainability

Proceedings of ICIMES 2019

Springer Nature **This book includes selected, high-quality papers presented at the International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES 2019) held at the Department of Mechanical Engineering, Malla Reddy College of Engineering & Technology (MRCET), Maisammaguda, Hyderabad, India, from 21 to 22 June 2019. It covers topics in the areas of automation, manufacturing technology and energy sustainability.**

Biomass Conversion and Technology

John Wiley & Son Limited **The aim of this book is to provide an integrated framework for the teaching, research, and application of science and engineering to the sustained production, transformation, utilisation, and impact of biomass energy. Coverage focuses on four main areas: biomass and bioenergy; bioenergy production and accounting; biomass conversion and end-use technologies; and an appraisal of the costs and benefits of biomass energy.**

Proceedings of International Conference on Computational Intelligence and Data Engineering

Proceedings of ICCIDE 2018

Springer **The book presents high-quality research work on cutting-edge technologies and the most-happening areas of computational intelligence and data engineering. It includes selected papers from the International Conference on Computational Intelligence and Data Engineering (ICCIDE 2018). The conference was conceived as a forum for researchers from academia and industry to present and share ideas and results and allow**

them to develop a comprehensive understanding of the challenges of technological advancements from different viewpoints. As such, this book helps foster strong links between academia and industry. It covers various topics, including collective intelligence, intelligent transportation systems, fuzzy systems, Bayesian network, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, and speech processing.

Proceedings of the International e-Conference on Intelligent Systems and Signal Processing

e-ISSP 2020

Springer Nature **This book provides insights into the Third International Conference on Intelligent Systems and Signal Processing (eISSP 2020) held By Electronics & Communication Engineering Department of G H Patel College of Engineering & Technology, Gujarat, India, during 28–30 December 2020. The book comprises contributions by the research scholars and academicians covering the topics in signal processing and communication engineering, applied electronics and emerging technologies, Internet of Things (IoT), robotics, machine learning, deep learning and artificial intelligence. The main emphasis of the book is on dissemination of information, experience and research results on the current topics of interest through in-depth discussions and contribution of researchers from all over world. The book is useful for research community, academicians, industrialists and postgraduate students across the globe.**

Information Systems Design and Intelligent Applications

Proceedings of Second International Conference INDIA 2015, Volume 1

Springer **The second international conference on INformation Systems Design and Intelligent Applications (INDIA – 2015) held in Kalyani, India during January 8-9, 2015. 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 two different volumes, and covers a variety of topics, 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.

Computational Linguistics

An Introduction

Cambridge University Press **A highly respected introduction to the computer analysis of language. Copyright © Libri GmbH. All rights reserved.**

Advances in Research on Networked Learning

Springer Science & Business Media **Networked learning is learning in which information and communications technology (ICT) is used to promote connections: between one learner and other learners; between learners and tutors; between a learning community and its learning resources. Networked learning is an area which has great practical and theoretical importance. It is a rapidly growing area of educational practice, particularly in higher education and the corporate sector. This volume brings together some of the best research in the field, and uses it to signpost some directions for future work. The papers in this collection represent a major contribution to our collective sense of recent progress in research on networked learning. In addition, they serve to highlight some of the largest or most important gaps in our understanding of students' perspectives on networked learning, patterns of interaction and online discourse, and the role of contextual factors. The range of topics and methods addressed in these papers attests to the vitality of this important field of work. More significant yet is the complex understanding of the field that they combine to create. In combination, they help explain some of the key relationships between teachers' and learners' intentions and experiences, the affordances of text-based communications technologies**

and processes of informed and intelligent educational change.

Contemporary Perspectives in E-Learning Research

Themes, Methods and Impact on Practice

Routledge **E-learning is at an exciting point in its development; its potential in terms of research is great and its impact on institutional practices is fully recognised. This book defines e-learning as a field of research, highlighting the complex issues, activities and tensions that characterise the area. Written by a team of experienced researchers and commented upon by internationally recognised experts, this book engages researchers and practitioners in critical discussion and debate about the findings emerging from the field and the associated impact on practice. Key topics examined include: access and inclusion the social-cultural contexts of e-learning organisational structures, processes and identities technical aspects of learning research – using tools and resources approaches to learning and teaching practices and associated learning theories designing for e-learning and the management of educational resources professional roles and identities the evolution of e-assessment collaboration, motivation and educational evaluation. Contemporary Perspectives in E-Learning Research provides a synthesis of research, giving readers a grounding in contemporary e-learning scholarship whilst identifying the debates that make it such a lively and fast-moving area. A landmark text in an evolving field, this book will prove invaluable for all researchers, practitioners, policy makers and students who engage with e-learning.**

The SAGE Handbook of E-learning Research

SAGE **The new edition of The SAGE Handbook of E-Learning Research retains the original effort of the first edition by focusing on research while capturing the leading edge of e-learning development and practice. Chapters focus on areas of development in e-learning technology, theory, practice, pedagogy and method of analysis. Covering the full extent of e-learning can be a challenge as developments and new features appear daily. The editors of this book meet this challenge by including contributions from leading researchers in areas that have gained a sufficient critical mass to provide reliable results and practices. The 25**

chapters are organised into six key areas: 1. THEORY 2. LITERACY & LEARNING 3. METHODS & PERSPECTIVES 4. PEDAGOGY & PRACTICE 5. BEYOND THE CLASSROOM 6. FUTURES

Digital Review of Asia Pacific 2007/2008

IDRC **The biennial Digital Review of Asia Pacific is a comprehensive guide to the state-of-practice and trends in information and communication technologies for development (ICT4D) in Asia Pacific This third edition (2007-2008) covers 31 countries and economies, including North Korea for the first time. Each country chapter presents key ICT policies, applications and initiatives for national development. In addition, five thematic chapters provide a synthesis of some of the key issues in ICT4D in the region, including mobile and wireless technologies, risk communication, intellectual property regimes and localization. The authors are drawn from government, academe, industry and civil society, providing a broad perspective on the use of ICTs for human development.**

Technical Challenges and Design Issues in Bangla Language Processing

IGI Global **Many take advantage of software and hardware accessibility in the English language. However, for non native speakers, this inevitably becomes a problem; specifically for the complex Bangla language which is not easily integrated into the world of technology. Technical Challenges and Design Issues in Bangla Language Processing addresses the difficulties as well as the overwhelming benefits associated with creating programs and devices that are accessible to the speakers of the Bangla language. Professionals, students, and researchers interested in expanding the fields of computing, information and knowledge management, and communication technologies in the non-English realm will benefit from this comprehensive collection of research.**

Computational Fluid Dynamics An Introduction

Springer Science & Business Media **An outgrowth of a lecture series given at the Von Karman Institute for Fluid Dynamics.**

Recent Innovations in Computing Proceedings of ICRIC 2020

Springer Nature **This book features selected papers presented at the 3rd International Conference on Recent Innovations in Computing (ICRIC 2020), held on 20–21 March 2020 at the Central University of Jammu, India, and organized by the university's Department of Computer Science & Information Technology. It includes the latest research in the areas of software engineering, cloud computing, computer networks and Internet technologies, artificial intelligence, information security, database and distributed computing, and digital India.**

Emerging Green Technologies

CRC Press **Green Technology deals with using science and technology to protect the environment as well as curb the negative impacts of human involvement. The emerging green technologies, covered in this book, will propel our economy in the near future. Their development will lead to global and sustainable powers that will impact our economics, societies, cultures, and the way of life. This book provides researchers, students, and professionals a comprehensive introduction, applications, benefits, and challenges of 15 emerging green technologies. It presents the impact of these cutting-edge technologies on our global economy and its future. The book will help a beginner to have an introductory knowledge about these emerging technologies. The main objective of the author is to provide a concise treatment that is easily digestible. It is a must-read for those graduate students or scholars who consider researching green technologies. It can also serve as a valuable resource for those business professionals who seek ways to green their processes.**

Aerodynamics of Road Vehicles From Fluid Mechanics to Vehicle Engineering

Elsevier **Aerodynamics of Road Vehicles details the aerodynamics of passenger cars, commercial vehicles, sports cars, and race cars; their external flow field; as well as their internal flow field. The book, after giving an introduction to automobile aerodynamics and some fundamentals of fluid mechanics, covers topics such as the performance and aerodynamics of different kinds of vehicles, as well as test techniques for**

their aerodynamics. The book also covers other concepts related to automobiles such as cooling systems and ventilations for vehicles. The text is recommended for mechanical engineers and phycisists in the automobile industry who would like to understand more about aerodynamics of motor vehicles and its importance on the field of road safety and automobile production.

Engaging in Educational Research

Revisiting Policy and Practice in Bangladesh

<u>Springer</u> **This book reflects the paradigm shift now manifesting in Bangladesh's education system by highlighting recent empirical research. It shares essential insights by presenting research conducted on diverse aspects of current day education in Bangladesh, including policy and governance, equity, access and participation, curriculum and pedagogy, assessment, and education programs and projects run by NGOs. Further, it offers a platform for these unique studies to be showcased and disseminated to scholars and researchers from developing and developed countries alike, and represents a unique reference resource for the education research community in Bangladesh, Asia and all over the world. With Foreword from Professor Serajul Islam Choudhury.**

Bangladesh Investment Handbook

Envisioning Architecture

An Analysis of Drawing

<u>John Wiley & Sons</u> **Examples of world-renowned masters of architecture are used in this enlightening book that explores the "why" of architectural drawing, rather than the "how." By emphasizing the value of drawing over technique, the authors demonstrate how the drawing itself influences the designer's processes of thought, and exerts its own pull on the evolution of the concept.**

Health and Well-Being in Islamic

Societies

Background, Research, and Applications

<u>Springer</u> **From the first hospitals to pioneering pharmacy techniques, the early history of medicine reflects the groundbreaking contributions of Islamic physicians and scientists. Less recognized, however, is the impact of Islam on the health and daily health practices of modern day Muslims. Meticulously documented with current research sources and relevant religious texts, Health and Well-Being in Islamic Societies sheds light on the relationships between Muslim beliefs and physical, psychological, and social health. Background chapters trace Muslim thought on health and healing as it has evolved over the centuries to the present. The authors provide even-handed comparisons with Christianity as the two traditions approach medical and ethical questions, and with Christian populations in terms of health outcomes, assuring coverage that is not only objective but also empirically sound and clinically useful. And as the concluding chapters show, understanding of these similarities and differences can lead to better care for clients, cost-effective services for communities, and healthier Muslim populations in general. Included among the book's topics: Muslim beliefs about health, healing, and healthcare Similarities and differences between Muslim and Christian health beliefs Impact of religion on physical, mental, and community health in Muslims Understanding how Islam influences health Applications for clinical practice Implications for public health Cultural awareness is critical to improving both individual client health and public health on a global scale. Health and Well-Being in Islamic Societies is essential reading for clinical and health psychologists, psychiatrists, social workers, and nurses, and will be informative for the general reader as well.**

International Handbook of Universities

<u>Grove's Dictionaries</u> **The Handbook, now in its 15th edition, is the only official guide to universities throughout the world. The information is truly authoritative, based on data collected by the International Association of Universities from official information supplied by national education bodies and the institutions themselves. It is the most comprehensive reference of its kind, available with information and statistics on courses of study, fees, personnel, and so on from over 6,000 universities in over 170 countries.Listings include: -- Full address details, including e-mail and**

World Wide Web addresses -- Names of key personnel -- administrative and academic -- General description and history -- Special facilities -- Information on fees -- Admission requirements -- Degrees and diplomas offered -- Academic year dates -- Language instruction -- Links with other universities -- Description of academic divisions with number of staff and students per faculty.

Machine Tool Design

This is volume 4 of a fundamental four-volume work, translated from the considerably revised second edition. It should be of great value to engineers engaged in the design, manufacture and maintenance of machine tool equipment. It can also be used to advantage by the students of engineering institutes majoring in Process Engineering, Metal-Cutting Machine Tools or Cutting Tool Design.The first volume deals with the basic machine tools and special machine tools used in cutting tool production. The classification, type and size range, and designation of machine tools, employed in Soviet practice, are given in detail, together with the types of motion found in machine tools. Metal-cutting lathes, turret lathes, vertical boring machines, automatic and semiautomatic lathes, milling machines and many other types of machine tools are described. Special attention has been given to machine tools designed for the production of cutting tools. These include general and single-purpose semiautomatic precision thread-grinding machines, automatic and semiautomatic tracer-controlled lathes with hydraulic controls, jig boring machines and specialized machine tools, as well as automatic transfer machines for cutting tool production.Volume two contains Parts Three and Four. Part Three deals with the kinematics of machine tools. This branch of machine tool design has been strictly systematized by the author and is set forth with exceptional clarity. The kinematic structures of a great many different types of machine tools, including the most complex gear-cutting machines, are analyzed by methods developed in the text which take into consideration the interrelation between the workpiece to be produced in the given machine tool. Part Four takes up hydraulic drives of machine tools. It contains all the theoretical and practical data required in the application of fluid power and control systems to machine tools.Volume Three contains Part Five and this deals with machine tool design proper. It is a comprehensive scientific treatment of the subject and is a revised and complemented version of a previous Russian edition which has become a reliable reference book for all Soviet machine tool engineers and has been translated into French. Such questions as performance criteria, basic design data, principal specifications and the development of the kinematic scheme of a new machine tool are dealt with in great detail. Design recommendations are given as well as the necessary calculation data for the basic elements of machine tools - speed and feed gearboxes, stepless drives, rapid traverse mechanisms, spindles and spindle bearings, mechanisms for rectilinear

motion, small displacement and periodic motion, reversing devices, beds columns, tables and other housing-type components, slideways and antifriction ways.The fourth and final volume covers Automatic Machine Tools and Transfer Machines, and Machine Tool Testing and Research, Parts Six and Seven of the complete work. Part Six deals with the fundamental principles of machine tool automation, the various systems of numerical programmed control that have found extensive application in modern machine tool design in the USSR and other countries. Much space has been given to automatic transfer machines, including in-line, rotary, and other types, their layout, features, design procedures, structure, and output.Current methods of testing and investigating the geometrical, kinematic, dynamic, and operational characteristics of machine tools are considered in Part Seven. Methods of testing the quality characteristics, of determining the corresponding criteria (indices), and of using contemporary apparatus for this purpose are dealt with.

Technological Development in Japan