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The volume contains original research papers as the Proceedings of the International Conference on Advances in Mathematics and Computing, held at Veer Surendra Sai University of Technology, Odisha, India, on 7-8 February, 2020. It focuses on new trends in applied analysis, computational mathematics and related areas. It also includes certain new models, image analysis technique, fluid flow problems, etc. as applications of mathematical analysis and computational mathematics. The volume should bring forward new and emerging topics of mathematics and computing having potential applications and uses in other areas of sciences. It can serve as a valuable resource for graduate students, researchers and educators interested in mathematical tools and techniques for solving various problems arising in science and engineering. An explanation of the development and structure of the modern mathematics used in contemporary science This book presents select proceedings of the International Conference on Applied Mathematics in Science and Engineering (AMSE 2019). Various topics covered include computational fluid dynamics, applications of differential equations in engineering, numerical methods for ODEs and PDEs, mathematical modeling and analysis of biological systems, optimal control and controllability of differential equations, fractional calculus and its applications, nonlinear analysis, and functional analysis. This book will be of interest to researchers, academicians and students in the fields of applied sciences, mathematics and engineering. This proceedings volume convenes selected, peer-reviewed papers presented at the 3rd International Conference on Mathematics and its Applications in Science and Engineering - ICMASE 2022, which was held on July 4-7, 2022 by the Technical University of Civil Engineering of Bucharest, Romania. Works in this volume cover new developments in applications of mathematics in science and engineering, with emphasis on mathematical and computational modeling of real-world problems. Topics range from the use of differential equations to model mechanical structures to the employ of number theory in the development of information security and cryptography. Educational issues specific to the acquisition of mathematical competencies by engineering and science students at all university levels are also touched on. Researchers and university students are the natural audiences for this book, which can be equally appealing to practitioners seeking up-to-date techniques in mathematical applications to different contexts and disciplines. About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with

explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou. This book publishes select papers presented at the 4th International Conference on Frontiers in Industrial and Applied Mathematics (FIAM-2021), held at the Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India, from 21-22 December 2021. Most of the papers deal with mathematical theory embedded with its applications to engineering and sciences. This book illustrates numerical simulation of scientific problems and the state-of-the-art research in industrial and applied mathematics, including various computational and modeling techniques with case studies and concrete examples. Graduate students and researchers, who are interested in real applications of mathematics in the areas of computational and theoretical fluid dynamics, solid mechanics, optimization and operations research, numerical analysis, bio-mathematics, fuzzy, control and systems theory, dynamical systems and nonlinear analysis, algebra and approximation theory, will find the book useful. Maths can be fun if the child can be taught to overcome early inhibitions and learn the secrets of doing sums quickly, without the benefit of pen and paper. RAM PRASAD, RP UNIFIED, RPP, GANIT, THAKUR KISHAN Asian science such as mathematics, Chinese printing, gunpowder and the compass, all contributed to the development of European science. During the last few centuries, however, scientific contributions with Asian roots have diminished and been marginalized and deligitimised. Yet the center of the world economy today is shifting to Asia with shifts in science and technology bound to follow. Toward a Global Science is driven by the proposition that pre-Renaissance acquisition of Asian knowledge did not exhaust Asian civilization's potential contribution. There are many useful elements to modern science still lying hidden in Asian civilizational stores waiting to be òmined.ó The author gives details of recent contributions from South Asian medicine, mathematics, and psychology and explores how South Asian inputs can be useful in navigating the philosophical and ethical problems raised by two dominant technologies of the future, namely biotechnology and information technology. As an illustrative example, it describes how a fruitful marriage of one technologyÑvirtual realityÑwith South Asian philosophy can enliven both the technology as well as philosophy. It also examines how Asian positions could be used to feed some key contemporary philosophical discussions on science. Using a model of the civilizational construction of science, the book views science without Eurocentric blinders. It documents how science was built initially by transfers from non-European civilizations and why the given historiography of science has to be rethought. Throughout the book the author gives examples of òparallels and antecedentsó between East and West in science and estimates the potential reservoir of Asian knowledge in each field. The book also deals with the many knotty problems in recovering science from past traditions. The author distinguishes between his secular efforts from religious and other attempts that claim the equivalence of all knowledge systems. This collection of essays spans pure and applied mathematics. Readers interested in mathematical research and historical aspects of mathematics will appreciate the enlightening content of the material. Highlighting the pervasive nature of mathematics today in a host of different areas, the book also covers the spread of mathematical ideas and techniques in areas ranging from computer science to physics to biology. Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement. Youth is a time of enormous energy. A lot of youth are in a confused state of mind. The youth of today's generation need clarity and balance. They have become the victims of social media information overload. Everywhere, there is compulsion. They are addicted to

smoking, alcohol, drugs and gruesome video materials. There's been substance abuse like never before. This is a small effort to bring an awareness among the youth, just to remind them of their enormous energies, how to balance them and lead their life well. Every individual needs to live his life consciously. If you are not living your life consciously, then you are living compulsively. This is the source of all misery. The youth of today's age need to understand this life. This life is the greatest gift and you need to learn to live it immensely. You should learn to live your life with great involvement and intensity. This book brings questionnaire of youth across India from various universities as well as colleges. It also includes some intriguing questions of celebrities from various fields. About Sadhguru: Sadhguru is a yogi, mystic and visionary and a spiritual master with a difference. An arresting blend of profundity and pragmatism, his life and work serve as a reminder that yoga is not an esoteric discipline from an outdated past, but a contemporary science, vitally relevant to our times. Probing, passionate and provocative, insightful, logical and unfailingly witty, Sadhguru's talks have earned him the reputation of a speaker and opinion-maker of international renown. With a celebratory engagement with life on all levels, Sadhguru's areas of active involvement encompass fields as diverse as architecture and visual design, poetry and painting, ecology and horticulture, music and sports. Sadhguru is also the founder of Isha Foundation, a non-profit organization which has been dedicated to the wellbeing of the individual and the world for the past three decades. Isha Foundation does not promote any particular ideology, religion, or race, but transmits inner sciences of universal appeal. As the name suggests, *Make Mathematics Your Best Friend* deals with around 140 questions which every student must know to understand the basic fundamentals and upgrade his mathematical skills. Topics include numerical operations, measurements and geometry, patterns and functions, probability and statistics, sets, inequalities, fundamentals of algebra, decimals, common fractions, motions, direct and inverse proportions, averages, divisibility, rational and radical expressions, degrees and radians, trigonometry, complex numbers, quadratic equations, transformations, circle rules and many more. The questions have been taken from different branches of mathematics with the aim of reducing the phobia and making it an entertaining and interesting subject. This book is an attempt to make clear the basic fundamental concepts which you always wanted to know. It has been designed for students in the age group of 10-18 years who are inquisitive by nature and want to understand and master the basic reasoning of every why and how in mathematics. The beauty of this book is that its simple and logical explanations can be understood even by a layman. Goyal Brothers Prakashan This book introduces fundamental ideas in mathematics through interesting puzzles. Students, from age 12 upwards, who are bored with routine classwork in maths will enjoy these puzzles which will sharpen will sharpen their logical reasoning. It is designed to arouse an interest in mathematics among readers among readers in the 12-18 age group. This book provides a complete course for first-year engineering mathematics. Whichever field of engineering you are studying, you will be most likely to require knowledge of the mathematics presented in this textbook. Taking a thorough approach, the authors put the concepts into an engineering context, so you can understand the relevance of mathematical techniques presented and gain a fuller appreciation of how to draw upon them throughout your studies. Student-friendly and comprehensive, this book covers topics such as Mathematical Logic, Set Theory, Algebraic Systems, Boolean Algebra and Graph Theory that are essential to the study of Computer Science in great detail. Goyal Brothers Prakashan Mathematics is considered the most dreaded subject. However it is extremely interesting and one should read about it. Had this subject not been interesting then some of the great physicist, doctors, lawyers, poets, story writers, etc., in their later life would not have turned to study it and made great discoveries in the field of mathematics. While mathematics itself may be a formidable subject for

many, the lives and accomplishments of history's greatest mathematicians are fascinating. This book is intended for people interested to know the heroic journey of those great mathematicians who have made important contribution to mathematics, through their ideas, teaching or in other ways. The main emphasis is on their work and achievement in the field of mathematics. I hope this book will serve actual purpose: firstly help students realize mathematics is not to be dreaded but helpful in achieving in other subjects; secondly help those who hate the subject respect it.

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