

Engineering Mathematics By Das Pal Vol 3

The author shares the "secrets" of his successful learning in Math with readers in simple and clear terms. It takes the readers to discover the study techniques needed in Math and unleash their individual potential. It is the perfect book for students, parents, educators and anyone who wants to enhance their Math learning. If you want to excel in Mathematics, this is the book for you!

The aim of this book is to examine the transformation of the geography of China in the years since the start of China's policy of reform and opening-up in 1978, as seen through the eyes of Chinese geographers. Throughout that period, Chinese geographers have studied these environmental, economic, political and cultural processes closely, drawing on sources that are far from easy to access, and have published their results in Chinese. Much of this research has underpinned the Chinese government's assessment of policies and the policy choices at different levels, yet it is not well known outside of China. This volume deals with aspects of the socio-economic geography of China's transformation including its changing relations with the rest of the world, although it also deals with the impact of China's development path on the country's ecological systems. Each chapter deals with aggregate trends and specific cases to show the ways in which the particular characteristics of China's economic and social order (economic organization, political system and cultural model and values) have shaped and are shaped by its geography.

"A final book like no other" from the Nobel Prize-winning author of *The Tin Drum*: poetry and meditations on writing, aging, and living until the end (*The Irish Times*). In spite of the trials of

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old age, and with the end in sight, Günter Grass weaves his life's reflections together into a witty and elegiac swansong: love letters, soliloquies, jealous musings, social satire, and moments of happiness long to be shared. As the inimitable German fabulist lives his remaining days, his passion for writing spurs in him new life. His final work is a creation filled with wisdom and defiance. In a striking interplay of poetry, lyric prose, and drawings, this diverse assemblage is a moving farewell gift—a sensual, melancholy summation of a life fully lived. “Elegant musings on dying and, most poignantly, living.” —Kirkus Reviews “A glorious gift, a final salute true to the singular creativity of the most human, and humane, of artists.” —The Irish Times “A thoughtful, uncompromising meditation on death and aging . . . He describes loss, change, and memory with a combination of melancholy and wit.” —Publishers Weekly

The book in its present form is due to my interaction with the students for quite a long time. It had been my long-cherished desire to write a book covering most of the topics that form the syllabii of the Engineering and Science students at the degree level. Many students, although able to understand the various topics of the books, may not be able to put their knowledge to use. For this purpose a number of questions and problems are given at the end of each chapter.

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for

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both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

The book has been designed according to the new AICTE syllabus and will cater to the needs of engineering students across all branches. The book provides the basis which is necessary for dealing with different types of physicochemical phenomena. Great care has been taken to explain the physical meaning of mathematical formulae, when and where they are required, followed by lucid development and discussion of experimental behaviour of systems. Every chapter has a set of solved problems and exercises. The idea is to instil sound understanding of the fundamental principles and applications of the subject. The author is known for explaining the concepts of Engineering Chemistry with full clarity, leaving no ambiguity in the minds of the readers. Although this book is primarily intended for BTech/BE students, it will also cater to the requirements of those pursuing BSc and MSc, including those of other disciplines like materials science and environmental science.

Engineering Mathematics-III has been mapped to the syllabus of the third-semester mathematics paper taught to the students of electrical engineering, electrical and electronics engineering and electronics and communication engineering in Rajasthan Technical University, Kota. The book, a balanced mix of theory and solved problems, focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed for engineers. The last three years' solved question papers have been included for the benefit of the students.

Designed as a textbook for undergraduate students in various engineering disciplines—Mechanical, Civil, Industrial Engineering, Electronics Engineer-ing and Computer

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Science—and for postgraduate students in Industrial Engineering and Water Resource Management, this comprehensive and well-organized book, now in its Second Edition, shows how complex economic decisions can be made from a number of given alternatives. It provides the managers not only a sound basis but also a clear-cut approach to making decisions. These decisions will ultimately result in minimizing costs and/or maximizing benefits. What is more, the book adequately illustrates the concepts with numerical problems and Indian cases. While retaining all the chapters of the previous edition, the book adds a number of topics to make it more comprehensive and more student friendly. What's New to This Edition

- Discusses different types of costs such as average cost, recurring cost, and life cycle cost.
- Deals with different types of cost estimating models, index numbers and capital allowance.
- Covers the basics of nondeterministic decision making.
- Describes the meaning of cash flows with probability distributions and decision making, and selection of alternatives using simulation.
- Discusses the basic concepts of Accounting.

This book, which is profusely illustrated with worked-out examples and a number of diagrams and tables, should prove extremely useful not only as a text but also as a reference for those offering courses in such areas as Project Management, Production Management, and Financial Management.

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of

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Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

The discovery of calculus in the seventeenth century by Isaac Newton and Gottfried Leibniz, helped usher in a revolution in mathematics and science that had a profound and far-reaching effect on the world. Calculus provided a powerful tool that enabled the fledgling science of physics to break new ground in our understanding of the workings of the natural universe. Indeed, calculus is virtually synonymous with physics as it is the mathematics of infinitesimal change. As the world about us appears to be a continuity punctuated by discrete things, then calculus is vital in understanding the behavior of a

quantitative change relative to another, from one instant to the next. The intellectual endeavor of mathematics can be thought of as a tree, with calculus one of its boughs. This bough consisting of two major branches, one entwined about the other—differentiation and integration. This book focuses on the discovery, methods and applications of the mathematics of differentiation. Differential calculus, as opposed to integral calculus, considers variable quantitative relationships to one another in the form of tangents. Techniques in Differentiation is based on material written for high school calculus students. However, the book is suitable for any elementary calculus student at either high school or university level. It aims to give calculus students a deeper understanding of the subject. This is achieved by, in part, providing more historical background and development than is offered by most calculus textbooks. A common failing of many technical textbooks is to skim over mathematical workings that get to some result. Mathematical and scientific textbooks typically assume the student has the required mathematical skill to provide the missing details for themselves. This is an ongoing major complaint of students and can make the study of a mathematics textbook particularly frustrating. The author of Techniques in Differentiation in contrast, provides detailed line-by-line working in proofs and examples. Another complaint of mathematics students is textbooks that provide too few exercises, or overly simple questions with which to practice. The author provides a large number of exercise questions, ranging in level of difficulty from easy to challenging. In addition, Techniques

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in Differentiation includes the answers to all the questions in the exercises at the end of each chapter. It is particularly irksome when a textbook does not provide answers to exercises-students find it frustrating when they are unable to see if they have adequately mastered the concepts and techniques outlined in a mathematics book. The dedicated student will find in calculus a powerful analytical tool with applications in the physical sciences, engineering and technology. And like all areas of mathematics, it can also be appreciated for its own inherent beauty. Techniques in Differentiation will provide mathematics students with the technical skills with which to explore and appreciate calculus and its applications.

Introduction to Engineering Mathematics - Volume IV has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr. A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 13 chapters divided among five modules - Partial Differential Equations, Applications of Partial Differential Equations, Statistical Techniques - I, Statistical Techniques - II and Statistical Techniques - III. This book is designed to meet the complete requirements of Engineering Mathematics course of undergraduate syllabus, The book consists of seven chapters viz. infinite Series, Matrices, Expansion of Functions, Asymptotes, Curvature, Partial Differentiation , Multiple Integrals, Each chapter is treated in treated in systematic,logical and lucid manner, All these chapters are independent units in themselves. The students can go through the book picking up any chapter at any given

times, without referring to other chapters, Hints, where ever necessary and answers of the questions in the exercises are given at the end of each exercise, Most of the questions-solved as well as unsolved-have been picked up from the examination papers of different universities and professional examinations, There are fully worked out examples and graded exercises (with answers) aimed at preparing the student for examination as well as higher studies, The authors have illustrated various methods to solve particular problems.

Virtual palaeontology, the use of interactive three-dimensional digital models as a supplement or alternative to physical specimens for scientific study and communication, is rapidly becoming important to scientists and researchers in the field. Using non-invasive techniques, the method allows the capture of large quantities of useful data without damaging the fossils being studied Techniques for Virtual Palaeontology guides palaeontologists through the decisions involved in designing a virtual palaeontology workflow and gives a comprehensive overview, providing discussions of underlying theory, applications, historical development, details of practical methodologies, and case studies. Techniques covered include physical-optical tomography (serial sectioning), focused ion beam tomography, all forms of X-ray CT, neutron tomography, magnetic resonance imaging, optical tomography, laser scanning, and photogrammetry. Visualization techniques and data/file formats are also discussed in detail. Readership: All palaeontologists and students interested in three-dimensional

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visualization and analysis. New Analytical Methods in Earth and Environmental Science Because of the plethora of analytical techniques now available, and the acceleration of technological advance, many earth scientists find it difficult to know where to turn for reliable information on the latest tools at their disposal, and may lack the expertise to assess the relative strengths or limitations of a particular technique. This new series will address these difficulties by providing accessible introductions to important new techniques, lab and field protocols, suggestions for data handling and interpretation, and useful case studies. The series represents an invaluable and trusted source of information for researchers, advanced students and applied earth scientists wishing to familiarise themselves with emerging techniques in their field. This enhanced e-book offers the following features: Full colour and high quality graphics Full searchability Internal links to glossaries, cross-references, figures and tables and other pedagogy External links to websites, including DOI linking for references and further reading B.E./B.Tech. Students of Second Semester of MDU, Rohtak and Kurushetra University, Kurushetra.

For graduate students unfamiliar with particle physics, An Introductory Course of Particle Physics teaches the basic techniques and fundamental theories related to the subject. It gives students the competence to work out various properties of fundamental particles, such as scattering cross-section and lifetime. The book also gives a lucid summary of the main ideas involved. In giving students a taste of fundamental

interactions among elementary particles, the author does not assume any prior knowledge of quantum field theory. He presents a brief introduction that supplies students with the necessary tools without seriously getting into the nitty-gritty of quantum field theory, and then explores advanced topics in detail. The book then discusses group theory, and in this case the author assumes that students are familiar with the basic definitions and properties of a group, and even $SU(2)$ and its representations. With this foundation established, he goes on to discuss representations of continuous groups bigger than $SU(2)$ in detail. The material is presented at a level that M.Sc. and Ph.D. students can understand, with exercises throughout the text at points at which performing the exercises would be most beneficial. Anyone teaching a one-semester course will probably have to choose from the topics covered, because this text also contains advanced material that might not be covered within a semester due to lack of time. Thus it provides the teaching tool with the flexibility to customize the course to suit your needs.

This book constitutes the proceedings of the 4th International Conference on Mathematics and Computing, ICMC 2018, held in Varanasi, India, in January 2018. The 29 papers presented in this volume were carefully reviewed and selected from 116 submissions. They are organized in topical sections on security and coding theory; computing; applied mathematics; pure mathematics.

This book is designed to build up a strong foundation for the new students entering in

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Engineering field. It is strictly as per the revised syllabus prescribed by AICTE model curriculum. It has been written to fulfil all the requirements of B.E/B.Tech second semester students (All Branches of Engineering) of Chhattisgarh Swami Vivekanand Technical University, Bilai. The essential feature of this book is that apart from theoretical background, it provides sufficient number of solved examples with detailed steps in easy and simple language along with problems for practice. Suitable figures have also been incorporated to ensure an easy understanding of the concepts. Short and very short answer type questions are also included. We hope that this book will be of great use for which it has been designed

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of

numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The

basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Some prominent additions are given below: 1. Variance of Degenerate Random Variable 2. Approximate Expression for Expectation and Variance 3. Lyapounov's Inequality 4. Holder's Inequality 5. Minkowski's Inequality 6. Double Expectation Rule or Double-E Rule and many others

Unlike traditional introductory math/stat textbooks, Probability and Statistics: The Science of Uncertainty brings a modern flavor based on incorporating the computer to the course and an integrated approach to inference. From the start the book integrates simulations into its theoretical coverage, and emphasizes the use of computer-powered computation throughout.* Math and science majors with just one year of calculus can use this text and experience a refreshing blend of applications and theory that goes beyond merely mastering the technicalities. They'll get a thorough grounding in probability theory, and go beyond that to the theory of statistical inference and its applications. An integrated approach to inference is presented that includes the frequency approach as well as Bayesian methodology. Bayesian inference is developed as a logical extension of likelihood methods. A separate chapter is devoted to the important topic of model checking and this is applied in the context of the standard applied statistical techniques. Examples of data analyses using real-world

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data are presented throughout the text. A final chapter introduces a number of the most important stochastic process models using elementary methods. *Note: An appendix in the book contains Minitab code for more involved computations. The code can be used by students as templates for their own calculations. If a software package like Minitab is used with the course then no programming is required by the students.

This textbook provides a unified and concise exploration of undergraduate mathematics by approaching the subject through its history. Readers will discover the rich tapestry of ideas behind familiar topics from the undergraduate curriculum, such as calculus, algebra, topology, and more. Featuring historical episodes ranging from the Ancient Greeks to Fermat and Descartes, this volume offers a glimpse into the broader context in which these ideas developed, revealing unexpected connections that make this ideal for a senior capstone course. The presentation of previous versions has been refined by omitting the less mainstream topics and inserting new connecting material, allowing instructors to cover the book in a one-semester course. This condensed edition prioritizes succinctness and cohesiveness, and there is a greater emphasis on visual clarity, featuring full color images and high quality 3D models. As in previous editions, a wide array of mathematical topics are covered, from geometry to computation; however, biographical sketches have been omitted. Mathematics and Its History: A Concise Edition is an essential resource for courses or reading programs on the history of mathematics. Knowledge of basic calculus, algebra, geometry, topology, and set

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theory is assumed. From reviews of previous editions: "Mathematics and Its History is a joy to read. The writing is clear, concise and inviting. The style is very different from a traditional text. I found myself picking it up to read at the expense of my usual late evening thriller or detective novel.... The author has done a wonderful job of tying together the dominant themes of undergraduate mathematics." Richard J. Wilders, MAA, on the Third Edition "The book...is presented in a lively style without unnecessary detail. It is very stimulating and will be appreciated not only by students. Much attention is paid to problems and to the development of mathematics before the end of the nineteenth century.... This book brings to the non-specialist interested in mathematics many interesting results. It can be recommended for seminars and will be enjoyed by the broad mathematical community." European Mathematical Society, on the Second Edition

Introduction to Engineering Mathematics Volume-II has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr. A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 15 chapters divided among five modules - Ordinary Differential Equations of Higher Order, Multivariable Calculus-II, Sequence and Series, Complex Variable Differentiation and Complex Variable-Integration. It contains numerous solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final

examination.

For B.E./B.Tech. / B.Arch. Students for First Semester of all Engineering Colleges of Maha Maya Technical University, Noida and Gautam Buddha Technical University, Lucknow

This is the second edition of a graduate level real analysis textbook formerly published by Prentice Hall (Pearson) in 1997. This edition contains both volumes. Volumes one and two can also be purchased separately in smaller, more convenient sizes.

This volume contains the peer-reviewed proceedings of the International Conference on Modelling and Simulation (MS-17), held in Kolkata, India, 4th-5th November 2017, organized by the Association for the Advancement of Modelling and Simulation Techniques in Enterprises (AMSE, France) in association with the Institution of Engineering Technology (IET, UK), Kolkata Network. The contributions contained here showcase some recent advances in modelling and simulation across various aspects of science and technology. This book brings together articles describing applications of modelling and simulation techniques in fields as diverse as physics, mathematics, electrical engineering, industrial electronics, control, automation, power systems, energy and robotics. It includes a special section on mechanical, fuzzy, optical and opto-electronic control of oscillations. It provides a snapshot of the state of the art in modelling and simulation methods and their applications, and will be of interest to researchers and engineering professionals from industry, academia and research

organizations.

For Engineering students & also useful for competitive Examination.

Interdisciplinary approaches using Machine Learning and Deep Learning techniques are smartly addressing real life challenges and have emerged as an inseparable element of disruption in current times. Applications of Disruptive Technology in Management practices are an ever interesting domain for researchers and professionals. This volume entitled Emerging Trends in Disruptive Technology Management for Sustainable Development has attempted to collate five different interesting research approaches that have innovatively reflected diverse potential of disruptive trends in the era of 4th. Industrial Revolution. The uniqueness of the volume is going to cater the entrepreneurs and professionals in the domain of artificial intelligence, machine learning, deep learning etc. with its unique propositions in each of the chapters. The volume is surely going to be a significant source of knowledge and inspiration to those aspiring minds endeavouring to shape their futures in the area of applied research in machine learning and computer vision. The expertise and experiences of the contributing authors to this volume is encompassing different fields of proficiencies. This has set an excellent prelude to discover the correlation among multidisciplinary approaches of innovation. Covering a broad range of topics initiating from IoT based sustainable development to crowd sourcing concepts with a blend of applied machine learning approaches has made this volume a must read to inquisitive wits. Features Assorted approaches to interdisciplinary research using disruptive trends Focus on application of disruptive technology in technology management Focus on role of disruptive technology on sustainable development Promoting green IT with disruptive technology The book is meant to benefit several categories of students

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and researchers. At the students' level, this book can serve as a treatise/reference book for the special papers at the masters level aimed at inspiring possibly future researchers. Newly inducted PhD aspirants would also find the contents of this book useful as far as their compulsory course-works are concerned. At the researchers' level, those interested in interdisciplinary research would also be benefited from the book. After all, the enriched interdisciplinary contents of the book would always be a subject of interest to the faculties, existing research communities and new research aspirants from diverse disciplines of the concerned departments of premier institutes across the globe. This is expected to bring different research backgrounds (due to its cross platform characteristics) close to one another to form effective research groups all over the world. Above all, availability of the book should be ensured to as much universities and research institutes as possible through whatever graceful means it may be. Hope this volume will cater as a ready reference to your quest for diving deep into the ocean of technology management for 4th. Industrial Revolution.

Engineering Mathematics PHI Learning Pvt. Ltd. Introduction to Engineering Mathematics Vol-1 (GBTU) S. Chand Publishing

Introducing the key events and developments in international relations, this authoritative and engaging book provides students with a clear understanding of the contemporary issues in international politics. Putting the foundations and contexts of International Relations at your fingertips, this Eighth Edition: Provides an account of the world as it has evolved up to 1945 Extended coverage of topics including population, gender and the environment Includes expanded material on the theory of international relations Includes new learning resources, including an 'alternative perspectives' box in each chapter Supports research with fully

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updated and annotated further reading lists Praised for its detail and tone, International Relations since 1945 is ideal for providing undergraduates with a historical background as they approach international relations.

The Standard Model is renormalizable and mathematically self-consistent, however despite having huge and continued successes in providing experimental predictions it does leave some unexplained phenomena. In particular, although the Physics of Special Relativity is incorporated, general relativity is not, and The Standard Model will fail at energies or distances where the graviton is expected to emerge. Therefore in a modern field theory context, it is seen as an effective field theory. The Standard Model is a quantum field theory, meaning its fundamental objects are quantum fields which are defined at all points in space-time. These fields are: 1.) the fermion eld, which accounts for "matter particles"; 2.) the electroweak boson elds W_1 , W_2 , W_3 , and B ; 3.) the gluon eld, G ; and 4.) the Higgs eld, These are quantum rather than classical elds and that has the mathematical consequence that they are operator-valued. In particular, values of the elds generally do not commute. As operators, they act upon the quantum state (ket vector). This book explains the mathematics and logic that supports the latest models of cosmology and particle physics as they are understood in the Grand Unification Theory (G.U.T.) and discusses the efforts and hurdles that are involved in taking the next step to defining an acceptable Theory of Everything (T.O.E.)."

Engineering Mathematics

In the beginning God created woman in His own like image, blessed her to go out to be fruitful and multiply, to replenish the earth, subdue it, and have dominion over everything on it, Genesis 1: 27-28. God's Own: The Genesis of Mathematical Story-Telling is about the

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creativity of God (The Absolute Infinite) as He is reflected in women. It is about the power of The Absolute Infinite to perform signs and wonders reflected in mathematical symbols, patterns, numbers, and graphs. It is a book on His word according to John 1:1, in the beginning was the word, the word was with God, and the word was God. *God's Own: The Genesis of Mathematical Story-Telling* is a mathematical, cultural, and spiritual story of Dr. Nkechi (God's own) Madonna Adeleine Agwu, aka Nma (Beautiful) Jacob. Dr. Agwu is an African female leader in mathematics and statistics education. Her life trajectory includes experiences of displacement, homelessness, living in refugee camps, single-parenting of a child with hearing and speech needs, and many other issues that from all indications could have set her up for failure, but for God's divine intervention. *God's Own: The Genesis of Mathematical Story-Telling* is about Dr. Agwu's journey as an ethno-mathematician to her present scholarship in African culture and women's stories in science, technology, engineering, and mathematics (STEM) related fields. It is about how she found her identity as a mathematical story-teller of members of the Organization of Nigerian Women in Agricultural Research and Development (NiWARD). It is a story about the beauty, strength, courage, and nurturing spirit of women. In this era of globalization, African people face the urgent need to foster world-wide education about their mathematics, science, technology, history and culture (Gerdes, 1998). All groups of people have made significant contributions to the development of mathematics. However, the contributions of Africans other than those related to the early beginnings of algebra and geometry in ancient Egypt, are still highly unacknowledged in the history of mathematics (Lumpkin, 1997). This is partly due to our oral traditions, slavery, colonialism, neo-colonialism, globalization, and the fact that our indigenous mathematics, scientific and technological

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knowledge as a people is often shrouded in our spirituality. This notwithstanding, efforts must be made to document the mathematical contributions of Africans to enrich the curriculum in a multicultural and interdisciplinary way by providing a wide repertoire of examples of mathematical concepts illustrated from the African context. *God's Own: The Genesis of Mathematical Story-Telling* does this. In particular, it highlights the indigenous mathematical knowledge and cultural beauty of the Ndebele people of Southern Africa. *God's Own: The Genesis of Mathematical Story-Telling* is a story about creativity, innovation, and adaptation. It is a story about necessity as the mother of innovation. It is about the philosophy of "do what you can, from where you are, with what you have." It is a story about Nma (Beautiful) Jacob, the survivor, overcomer, successor and faithful servant of God. It is a story that The Absolute Infinite is ever present in our lives shaping our mathematical genomes. Emmanuel - God is with us! His Angels are around us, protecting and guiding us!

Today we find the applications of nanotechnology in all spheres of life. *Nanotechnology: Therapeutic, Nutraceutical and Cosmetic Advances* discusses recent advances in the field, particularly with therapeutics, nutraceuticals and cosmetic sciences. Therapeutics is an area which has perhaps benefitted the most, although nanoscience and technology have quietly entered the realms of food science and are playing pivotal roles in the efficient utilization of nutraceuticals. Finally, even before therapeutics came cosmetics and companies started marketing unique products embedding the beneficial and advanced properties enabled by the use of nanostructures. This book highlights trends and applications of this wonderful new technology.

In the world of mathematics and computer science, technological advancements

are constantly being researched and applied to ongoing issues. Setbacks in social networking, engineering, and automation are themes that affect everyday life, and researchers have been looking for new techniques in which to solve these challenges. Graph theory is a widely studied topic that is now being applied to real-life problems. The Handbook of Research on Advanced Applications of Graph Theory in Modern Society is an essential reference source that discusses recent developments on graph theory, as well as its representation in social networks, artificial neural networks, and many complex networks. The book aims to study results that are useful in the fields of robotics and machine learning and will examine different engineering issues that are closely related to fuzzy graph theory. Featuring research on topics such as artificial neural systems and robotics, this book is ideally designed for mathematicians, research scholars, practitioners, professionals, engineers, and students seeking an innovative overview of graphic theory.

In the world of mathematics, it is always important to keep growing in knowledge, in pursuit of answers and in confirming findings more accurately. That characterizes the endeavor of author Peter Erickson through his new book, The Nature of Negative Numbers, which explores negativity in mathematics. Peter's chief focus is on number systems, between the real number system and the

veritable number system. He begins the book's discussion with the history of the law of signs, given to us by Greek mathematician Diophantus. The narration explores further the two mathematical systems, real vs. veritable: journeying into points about negative roots and powers, significance of signs in addition and subtraction and even how the systems measure up to the basic laws of arithmetic. Sir William Rowan Hamilton is also shared within The Nature of Negative Numbers, as Peter states what mathematician Sir William learned during his own experiments with the systems.

The book covers the syllabus completely and exhaustively. The five units of the syllabus are presented in the five chapters that make up this book. Each topic of the subject discussed presents the important principles, methods and processes of obtaining results in a systematic way with emphasis on clarity and academic rigour. A lot of standard problems and frequently asked university questions have been worked out in detail for the students' benefit. Exercise problems are given with hints, wherever necessary. Further, a supplement of Frequently Asked Questions and Answers is provided along with the book.

This book is primarily written according to the latest syllabus (July 2013) of Mahamaya Technical University, Noida for the third semester students of B.E./B.Tech/B.Arch. The textbook is for the Group B [ME, AE, MT, TT, TE, TC,

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FT, CE, CH, etc. Branches] of B.Tech III Semester. The Solved Question Paper of Dec. 2012 is included in the body of the text.

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