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Maui small businesses have no choice but to change

6. High-frequency signals are never routed over splits in power and return planes. 7. Assigning a power plane next to a ground plane provides a low-inductance, high-capacitance interplane capacitor, ...

Satellite avionics grounding and design for EMC, part 1

That's roughly the same as a square about 8.5 inches on each side. But honestly, the WSE — Wafer Scale Engine — is just

most of a wafer not cut up. Typically a wafer will have lots of copies ...

Largest Chip Ever Holds 1.2 Trillion Transistors

Located between the launch vehicle stage adapter and the Orion stage adapter, the stage is fitted with the tried and tested liquid oxygen and liquid hydrogen RL 10 engine used on the United Launch ...

Pictures from space! Our image of the day

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Current Directions in Psychological Science, 28(6), 587-592. Clark ... British Journal of Psychology, 112(2), 389-411. Stroud, N. J. (2010). Polarization and partisan selective exposure.

Psychology Today

It depends on person to person as some people love torque and some love performance both are equally good but if your running is minimal 25+ km/day then go diesel less than 20 km/day or use car 2 3 ...

Q. Which is best, Petrol or diesel in Swift?

Increasing demand for magnesium alloys for producing jet-engine-fan frames, spacecraft, transmission castings, etc., clubbed with increasing investments by various countries in the defense sector ...

Global Magnesium Alloys Market Report 2021-2028 - High Demand for Smartphones and Laptops & Increase in Applicability in Various Sectors

"The investment in an educated workforce from corporate community support is key to enabling AUIS to attract students from diverse backgrounds and creates a powerful engine both for student ...

Caliburn International Donates \$250,000 to American University of Iraq, Sulaimani (AUIS)

For services to the Humanitarian Sector and the Red Cross Movement. (Stroud, Gloucestershire) Professor Jameel Sadik Al-Khalili OBE FRS. Professor of Physics and Professor of Public Engagement in ...

The full list of those on the Queen's Birthday Honours List 2021

Porsche's turbocharged 3.0-litre flat-six engine is up from 450hp in the Carrera S to 480hp in the new GTS. This, combined with 570Nm of torque, enables the GTS coupé to crack the 0-100kph ...

New Porsche 911 GTS unveiled

Biden wants to raise the top tax rate to 39.6% for people earning \$400,000 a year or more in taxable income, estimated to be fewer than 2% of U.S. households. The top tax rate that workers pay on ...

Many of the uber-rich pay next to no income tax, ProPublica finds

The thing about DeFi plays like this is that it's all about revenue and math and I was too lazy to do the math to determine what the key metrics were." Crypto Twitter, already reeling from the ...

Bitcoin under threat, El Salvador rejected, Mark Cuban stung, McAfee 'has nothing': Hodler's Digest, June 13-19

Thus, charge air coolers play a critical role in cooling the engine. With the trend of engine ... for charge air coolers in the years to come. 6 Automotive Charge Air Cooler Market, by Type ...

A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

A world-wide bestseller renowned for its effective self-instructional pedagogy.

Longlisted for the National Book Award New York Times Bestseller A former Wall Street quant sounds an alarm on the mathematical models that pervade modern life -- and threaten to rip apart our social fabric We live in the age of the algorithm. Increasingly, the decisions that affect our lives--where we go to school, whether we get a car loan, how much we pay for health insurance--are being made not by humans, but by mathematical models. In theory, this should lead to greater fairness: Everyone is judged according to the same rules, and bias is eliminated. But as Cathy O'Neil reveals in this urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated, and uncontestable, even when they're wrong. Most troubling, they reinforce discrimination: If a poor student can't get a loan because a lending model deems him too risky (by virtue of his zip code), he's then cut off from the kind of education that could pull him out of poverty, and a vicious spiral ensues. Models are propping up the lucky and punishing the downtrodden, creating a "toxic cocktail for democracy." Welcome to the dark side of Big Data. Tracing the arc of a person's life, O'Neil exposes the black box models that shape our future, both as individuals and as a society. These "weapons of math destruction" score teachers

and students, sort resumes, grant (or deny) loans, evaluate workers, target voters, set parole, and monitor our health. O'Neil calls on modelers to take more responsibility for their algorithms and on policy makers to regulate their use. But in the end, it's up to us to become more savvy about the models that govern our lives. This important book empowers us to ask the tough questions, uncover the truth, and demand change. -- Longlist for National Book Award (Non-Fiction) -- Goodreads, semi-finalist for the 2016 Goodreads Choice Awards (Science and Technology) -- Kirkus, Best Books of 2016 -- New York Times, 100 Notable Books of 2016 (Non-Fiction) -- The Guardian, Best Books of 2016 -- WBUR's "On Point," Best Books of 2016: Staff Picks -- Boston Globe, Best Books of 2016, Non-Fiction

"Learning abstract algebra is not hard. It is not like getting to know the deep forest - its trails, streams, lakes, flora, and fauna. It takes time, effort, and a willingness to venture into new territory. It is a task that cannot be done overnight. But with a good guide (this book!), it should be an exciting excursion with, perhaps, only a few bumps along the way. Students - even students who have done very well in calculus - often have trouble with abstract algebra. Our objective in writing this book is to make abstract algebra as accessible as elementary calculus and, we hope, a real joy to study. Our textbook has three advantages over the standard abstract algebra textbook. First, it covers all the foundational concepts needed for abstract algebra (the only prerequisite for this book is high school algebra). Second, it is easier to read and understand (so it is ideal for self-learners). Third, it gets the reader to think mathematically and to do mathematics - to experiment, make conjectures, and prove theorems - while reading the book. The result is not only a better learning experience but also a more enjoyable one" -- from back cover.

Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8

offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

This is an entry level text for a wide range of courses in computer science, medicine, health sciences, social sciences, business, engineering and science. Using the phenomenally successful approach of the bestselling Engineering Mathematics by the same authors, it takes you through the math step-by-step with a wealth of examples and exercises. It is an appropriate refresher or brush-up for sci-tech and business students whose math skills need further development. Offers a unique module approach that takes users through the mathematics in a step-by-step fashion with a wealth of worked examples and exercises. Contains Quizzes, Learning Outcomes and Can You? Checklists that guide readers through each topic and focus understanding. Ideal as reference or a self-learning manual.

The purpose of this book is to provide a complete year's course in mathematics for those studying in the engineering, technical and scientific fields. The material has been specially written for courses leading to (i) Part I of B. Sc. Engineering Degrees, (ii) Higher National Diploma and Higher National Certificate in technological subjects, and for other courses of a comparable level. While formal proofs are included where necessary to promote understanding, the emphasis throughout is on providing the student with sound mathematical skills and with a working knowledge and appreciation of the basic concepts involved. The programmed structure ensures that the book is highly suited for general class use and for individual self-study, and also provides a ready means for remedial work or subsequent revision. The book is the outcome of some eight years' work undertaken in the development of programmed learning techniques in the Department of Mathematics at the Lanchester College of Technology, Coventry. For the last four years, the whole of the mathematics of the first year of various Engineering Degree courses has been presented in programmed form, in conjunction with seminar and tutorial periods. The results obtained have proved to be highly satisfactory, and further extension and development of these learning techniques are being pursued. Each programme has been extensively validated before being produced in its final form and has consistently reached a success level above 80/80, i. e.

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

This text is an introduction to electrophysiology, following a quantitative approach. The first chapter summarizes much of the mathematics required in the following chapters. The second chapter presents a very concise overview of the general principles of electrical fields and current flow, mostly established in physical science and engineering, but also applicable to biological environments. The following five chapters are the core material of this text. They include descriptions of how voltages come to exist across membranes and how these are described using the Nernst and Goldman equations (Chapter 3), an examination of the time course of changes in membrane voltages that produce action potentials (Chapter 4), propagation of action potentials down fibers (Chapter 5), the response of fibers to artificial stimuli such as those used in pacemakers (Chapter 6), and the voltages and currents produced by these active processes in the surrounding extracellular space (Chapter 7). The subsequent chapters present more detailed material about the application of these principles to the study of cardiac and neural electrophysiology, and include a chapter on recent developments in membrane biophysics. The study of electrophysiology has progressed rapidly because of the precise, delicate, and ingenious experimental studies of many investigators. The field has also made great strides by unifying the numerous experimental observations through the development of increasingly accurate theoretical concepts and mathematical descriptions. The application of these fundamental principles has in turn formed a basis for the solution of many different electrophysiological problems.

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