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MA10193 - Mathematics 2

Mathematical Methods in Engineering and Science Preliminary Background 16, Theme of the Course Course Contents Sources for More Detailed Study Logistic Strategy Expected Background Expected Background moderate background of undergraduate mathematics firm understanding of school mathematics and undergraduate calculus Take the preliminary test.

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Although the rigors of modern science increasingly require of its

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practitioners greater and greater mathematical sophistication, today's students are often ill-prepared to meet the challenge. Mathematical Techniques aims to rectify that situation. Aimed at beginning students in the engineering, mathematical, and physical sciences, the book offers a course in essential mathematical methods--such as analytic geometry, vector algebra, complex numbers, matrix operations, differential equations, double integrals, Laplace transforms, and Fourier series, among many others. Throughout, the book omits mathematical pedantry and obscure proofs, and presents summary material clearly. A large number of exercises and worked examples are included. Students taking the road down to careers in engineering, chemistry, mathematics, and physics will welcome this friendly introduction to important mathematical techniques.

Undergraduate students of engineering, science, and mathematics must quickly master a variety of mathematical methods, although many of these students do not have strong mathematics backgrounds. In this well-received book, now in its second edition, the authors use their extensive experience with diverse groups of students to provide an accessible introduction to mathematical techniques. They start at the elementary level and proceed to cover the full range of topics typically encountered by beginning students:

- Analytic geometry, vector algebra, vector fields (div and curl), differentiation, and integration.
- Complex numbers, matrix operations, and linear systems of equations.
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Incorporating many suggestions from readers, this new edition has expanded discussions of vectors and new chapters on Fourier series and on probability and statistics. The emphasis throughout is on

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understanding concepts through well-chosen examples, and the book includes over 500 fully worked problems. As far as is possible chapter topics are self-contained so that a student only needing to master certain techniques can omit others without trouble. The generously illustrated text also includes simple numerical processes which lead to examples and projects for computation (particularly with Mathematica), and contains a large number of exercises (with answers) to reinforce the material. These features combine to make this book an ideal starting point for students entering the sciences.

Thoroughly updated and expanded 4th edition of the classic text, including numerous worked examples, diagrams and exercises. An ideal resource for students and lecturers in engineering, mathematics and the sciences it is published alongside a separate Problems and Solutions Sourcebook containing over 500 problems and fully-worked solutions.

Mathemusical Conversations celebrates the understanding of music through mathematics, and the appreciation of mathematics through music. This volume is a compilation of the invited talks given at the Mathemusical Conversations workshop that took place in Singapore from 13–15 February 2015, organized by Elaine Chew in partnership with Gérard Assayag for the scientific program and with Bernard Lanskey for the artistic program. The contributors are world experts and leading scholars, writing on the intersection of music and mathematics. They also focus on performance and composition, two topics which are foundational both to the understanding of human creativity and to the creation of tomorrow's music technologies. This book is essential reading for researchers in both music and mathematics. It will also appeal more broadly to scholars, students, musicians, and anyone interested in new perspectives on the intimate relationship between these two universal human activities. Contents:Foreword by Series EditorsForeword by Workshop OrganizersMathemusical

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Engagement: Without Our Consent (Paul Schoenfield) Approaches to Musical Expression in Harmonix Video Games (Eran Egozy) Motion and Gravitation in the Musical Spheres (Elaine Chew) Mathemusical Creativity: Improvising in Creative Symbolic Interaction (Gérard Assayag) Music, Creativity, and Computers (Margaret A Boden) Tiling Canons as a Key to Approaching Open Mathematical Conjectures? (Moreno Andreatta) Shaping Performance: Musical Motives in Performance: A Study of Absolute Timing Patterns (Neta Spiro, Nicolas Gold and John Rink) Playing with Variables: Anticipating One Particular Performance of Bach's Goldberg Variations (Bernard Lanskey and Stephen Emmerson) The Informatics Philharmonic in the Indiana University Summer String Academy (Christopher Raphael) Educating the Mathemusical: Mathematical Thought and Empirical Approaches in Higher Education in Music (Jian Yang) Action and Symbol: An Essential Tension (Jeanne Bamberger) Educating the Mathemusical: Balancing the Equation (Don McLean) Geometries: Graph-theoretic and Geometric Models of Music (Richard Cohn) In Quest of Musical Vectors (Dmitri Tymoczko) A Topological Approach of Musical Relationships (Jean-Louis Giavitto and Antoine Spicher) List of Contributors Readership: Advanced secondary school students; post-secondary school students; and scientists, mathematicians, musicians and members of the public interested in the mathematical music sciences.

Exploring Mathematics gives students experience with doing mathematics - interrogating mathematical claims, exploring definitions, forming conjectures, attempting proofs, and presenting results - and engages them with examples, exercises, and projects that pique their interest. Written with a minimal number of pre-requisites, this text can be used by college students in their first and second years of study, and by independent readers who want an accessible introduction to theoretical mathematics. Core topics include proof techniques, sets, functions, relations, and cardinality,

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with selected additional topics that provide many possibilities for further exploration. With a problem-based approach to investigating the material, students develop interesting examples and theorems through numerous exercises and projects. In-text exercises, with complete solutions or robust hints included in an appendix, help students explore and master the topics being presented. The end-of-chapter exercises and projects provide students with opportunities to confirm their understanding of core material, learn new concepts, and develop mathematical creativity.

The starting point of this book is Sperner's theorem, which answers the question: What is the maximum possible size of a family of pairwise (with respect to inclusion) subsets of a finite set? This theorem stimulated the development of a fast growing theory dealing with external problems on finite sets and, more generally, on finite partially ordered sets. This book presents Sperner theory from a unified point of view, bringing combinatorial techniques together with methods from programming, linear algebra, Lie-algebra representations and eigenvalue methods, probability theory, and enumerative combinatorics. Researchers and graduate students in discrete mathematics, optimisation, algebra, probability theory, number theory, and geometry will find many powerful new methods arising from Sperner theory.

"Using the mathematician's method of analyzing life and exposing the hard-won insights of the academic community to the layman, minus the jargon ... Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need"--

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