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New Syllabus Mathematics

Textbook

Oxford Mathematics for the Caribbean

A Concise Handbook of Mathematics, Physics, and Engineering Sciences

CRC Press *A Concise Handbook of Mathematics, Physics, and Engineering Sciences takes a practical approach to the basic notions, formulas, equations, problems, theorems, methods, and laws that most frequently occur in scientific and engineering applications and university education. The authors pay special attention to issues that many engineers and students*

The Mathematics of Diffusion

Oxford University Press *Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.*

Winning Solutions

Springer Science & Business Media *This book provides the mathematical tools and problem-solving experience needed to successfully compete in high-level problem solving competitions. Each section presents important background information and then provides a variety of worked examples and exercises to help bridge the gap between what the reader may already know and what is required for high-level competitions. Answers or sketches of the solutions are given for all exercises.*

Catalogue

New Syllabus Mathematics Textbook 3

6th Edition

Shing Lee Publishers Pte Ltd *New Syllabus Mathematics is a series of four books. These books follow the Mathematics Syllabus for Secondary Schools, implemented from 2007 by the Ministry of Education, Singapore. The whole series covers the complete syllabus for the Singapore-Cambridge GCE �O� Level Mathematics. The sixth edition of New Syllabus Mathematics retains the goals and objectives of the previous edition, but has been revised to meet the needs of the current users, to keep materials up-to-date as well as to give students a better understanding of the contents. All topics are comprehensively dealt with to provide students with a firm grounding in the subject. Explanations of concepts and principles are precise and written clearly and concisely with supportive illustrations and examples. Examples and exercises have been carefully graded to aid students in progressing within and beyond each level. Those exercises marked with a require either more thinking or involve more calculations. Numerous revision exercises are provided at appropriate intervals to enable students to recapitulate what they have learnt. Some interesting features of this series include the following: � an interesting introduction at the beginning of each chapter complete with photographs or graphics � brief specific instructional objectives for each chapter � Just For Fun arouses the students� interests in studying mathematics � Thinking Time encourages students to think creatively and go deeper into the topics � Exploration provides opportunities for students to learn actively and independently � For Your Information provides extra information on mathematicians, mathematical history and events etc. � Problem Solving Tips provides suggestions to help students in their thinking processes. We also introduce problem solving heuristics and strategies systemically throughout the series. � Your Attention alerts students to misconceptions.*

Helping Children Learn Mathematics

John Wiley & Sons *The third edition of Reys' Helping Children Learn Mathematics is a practical resource for undergraduate students of primary school teaching. Rich in ideas, tools and stimulation for lessons during teaching rounds or in the classroom, this edition continues to provide a clear understanding of how to navigate the Australian Curriculum, with detailed coverage on how to effectively use Information and Communications Technology (ICT) in the classroom. This is a full colour printed textbook with an interactive eBook code included. Great self-study features include: auto-graded in-situ knowledge check questions, video of teachers demonstrating how different maths topics can be taught in the classroom and animated, branched chain scenarios are in the e-text.*

Mathematics for Machine Learning

Cambridge University Press *The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the*

mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

New Syllabus Mathematics Workbook 3

6th Edition

<u>Shing Lee Publishers Pte Ltd</u> *New Syllabus Mathematics Workbook (Express) is written in line with the new Singapore-Cambridge GCE �O� Level Examination and the new initiatives of the Ministry of Education. The workbook consists of exercises which prepare students for their examinations. The more difficult questions are marked with an *. To encourage student-centred learning, the workbook includes non-routine types of worksheets that are classified under the section, Alternative Assessment. These worksheets encourage students to learn independently through carefully-guided steps and the use of IT. Students are motivated to investigate mathematical concepts with various methods and think critically, so that they will understand and appreciate the concepts better. The teacher can gauge the students� learning by assessing the work with the scoring rubric found at the end of the relevant worksheets. The workbook is accompanied with a CD-ROM that contains templates to be used with some worksheets. It is hoped that with the use of various pedagogies, different types of students will be inspired to achieve success in mathematics.*

Numerical Solution of Nonlinear Elliptic Problems Via Preconditioning Operators

Theory and Applications

<u>Nova Publishers</u> *Numerical Solution of Nonlinear Elliptic Problems Via Preconditioning Operators - Theory & Applications*

Mathematical Techniques

An Introduction for the Engineering, Physical, and Mathematical Sciences

<u>Oxford University Press, USA</u> *All students of engineering, science, and mathematics take courses on mathematical techniques or `methods', and large numbers of these students are insecure in their mathematical grounding. This book offers a course in mathematical methods for students in the first stages of a science or engineering degree. Its particular intention is to cover the range of topics typically required, while providing for students whose mathematical background is minimal. The topics covered are: * Analytic geometry, vector algebra, vector fields (div and curl), differentiation, and integration. * Complex numbers, matrix operations, and linear systems of equations. * Differential equations and first-order linear systems, functions of more than one variable, double integrals, and line integrals. * Laplace transforms and Fourier series and Fourier transforms. * Probability and statistics. The earlier part of this list consists largely of what is thought pre-university material. However, many science students have not studied mathematics to this level, and among those that have the content is frequently only patchily understood. Mathematical Techniques begins at an elementary level but proceeds to give more advanced material with a minimum of manipulative complication. Most of the concepts can be explained using quite simple examples, and to aid understanding a large number of fully worked examples is included. As far as is possible chapter topics are dealt with in a self-contained way so that a student only needing to master certain techniques can omit others without trouble. The widely illustrated text also includes simple numerical processes which lead to examples and projects for computation, and a large number of exercises (with answers) is included to reinforce understanding.*

The Concise Oxford Dictionary of Mathematics

Sixth Edition

<u>Oxford University Press</u> *With over 4,000 entries, this informative A to Z provides clear, jargon-free definitions on a wide variety of mathematical terms. Its entries cover both pure and applied mathematics, and include key theories, concepts, methods, programmes, people, and terminology. For this sixth edition, around 800 new terms have been defined, expanding on the dictionary's coverage of topics such as algebra, differential geometry, algebraic geometry, representation theory, and statistics. Among this new material are articles such as cardinal arithmetic, first fundamental form, Lagrange's theorem, Navier-Stokes equations, potential, and splitting field. The existing entries have also been revised and updated to account for developments in the field. Numerous supplementary features complement the text, including detailed appendices on basic algebra, areas and volumes, trigonometric formulae, and Roman numerals. Newly added to these sections is a historical timeline of significant mathematicians lives and the emergence of key theorems. There are also illustrations, graphs, and charts throughout the text, as well as useful web links to provide access to further reading.*

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Mathematical Questions and Solutions

New Syllabus Mathematics Textbook 4

6th Edition

<u>Shing Lee Publishers Pte Ltd</u> *New Syllabus Mathematics is a series of four books. These books follow the Mathematics Syllabus for Secondary Schools, implemented from 2007 by the Ministry of Education, Singapore. The whole series covers the complete syllabus for the Singapore-Cambridge GCE �O� Level Mathematics. The sixth edition of New Syllabus Mathematics retains the goals and objectives of the previous edition, but has been revised to meet the needs of the current users, to keep materials up-to-date as well as to give students a better understanding of the contents. All topics are comprehensively dealt with to provide students with a firm grounding in the subject. Explanations of concepts and principles are precise and written clearly and concisely with supportive illustrations and examples. Examples and exercises have been carefully graded to aid students in progressing within and beyond each level. Those exercises marked with a require either more thinking or involve more calculations. Numerous revision exercises are provided at appropriate intervals to enable students to recapitulate what they have learnt. Some interesting features of this series include the following: � an interesting introduction at the beginning of each chapter complete with photographs or graphics � brief specific instructional objectives for each chapter � Just For Fun arouses the students� interests in studying mathematics � Thinking Time encourages students to think creatively and go deeper*

into the topics ◆ Exploration provides opportunities for students to learn actively and independently ◆ For Your Information provides extra information on mathematicians, mathematical history and events etc. ◆ Problem Solving Tips provides suggestions to help students in their thinking processes. We also introduce problem solving heuristics and strategies systemically throughout the series. ◆ Your Attention alerts students to misconceptions.

An Invitation to Mathematics

From Competitions to Research

Springer Science & Business Media This Invitation to Mathematics consists of 14 contributions, many from the world's leading mathematicians, which introduce the readers to exciting aspects of current mathematical research. The contributions are as varied as the personalities of active mathematicians, but together they show mathematics as a rich and lively field of research. The contributions are written for interested students at the age of transition between high school and university who know high school mathematics and perhaps competition mathematics and who want to find out what current research mathematics is about. We hope that it will also be of interest to teachers or more advanced mathematicians who would like to learn about exciting aspects of mathematics outside of their own work or specialization. Together with a team of young ``test readers'', editors and authors have taken great care, through a substantial ``active editing'' process, to make the contributions understandable by the intended readership.

Ordinary Differential Equations and Their Solutions

Courier Corporation This treatment presents most of the methods for solving ordinary differential equations and systematic arrangements of more than 2,000 equations and their solutions. The material is organized so that standard equations can be easily found. Plus, the substantial number and variety of equations promises an exact equation or a sufficiently similar one. 1960 edition.

Mathematical Methods for Physicists

A Comprehensive Guide

Academic Press Table of Contents Mathematical Preliminaries Determinants and Matrices Vector Analysis Tensors and Differential Forms Vector Spaces Eigenvalue Problems Ordinary Differential Equations Partial Differential Equations Green's Functions Complex Variable Theory Further Topics in Analysis Gamma Function Bessel Functions Legendre Functions Angular Momentum Group Theory More Special Functions Fourier Series Integral Transforms Periodic Systems Integral Equations Mathieu Functions Calculus of Variations Probability and Statistics.

A Level Mathematics for OCR A Student Book 1 (AS/Year 1)

Cambridge University Press New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision. Written for the OCR AS/A Level Mathematics specifications for first teaching from 2017, this print Student Book covers the content for AS and the first year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and consolidate learning, providing a clear and structured pathway for progressing through the course. It is underpinned by a strong pedagogical approach, with an emphasis on skills development and the synoptic nature of the course. Includes answers to aid independent study.

The Mathematical Gazette

Issues in Applied Mathematics: 2011 Edition

ScholarlyEditions Issues in Applied Mathematics / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Applied Mathematics. The editors have built Issues in Applied Mathematics: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Applied Mathematics in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Applied Mathematics: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

New Syllabus Primary Mathematics

Teacher's resource book

Precalculus with Calculus Previews

Jones & Bartlett Publishers Instructors are always faced with the dilemma of too much material and too little time. Perfect for the one-term course, Precalculus with Calculus Previews, Fourth Edition provides a complete, yet manageable, introduction to precalculus concepts while focusing on important topics that will be of direct and immediate use in most calculus courses. Consistent with Professor Zill's eloquent writing style, this four-color text offers numerous exercise sets and examples to aid in students' learning and understanding, while graphs and figures throughout serve to illuminate key concepts. The exercise sets include engaging problems that focus on algebra, graphing, and function theory, the sub-text of so many calculus problems. The authors are careful to use the terminology of calculus in an informal and comprehensible way to facilitate the student's successful transition into future calculus courses. With an extensive Student Study Guide and a full Solutions Manual for instructors, Precalculus with Calculus Previews offers a complete teaching and learning package!

CRC Concise Encyclopedia of Mathematics

CRC Press Upon publication, the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope, readability, and utility. It soon took its place among the top selling books in the history of Chapman & Hall/CRC, and its popularity continues unabated. Yet also unabated has been the d

Continuum Mechanics, Applied Mathematics and Scientific Computing: Godunov's Legacy

A Liber Amicorum to Professor Godunov

Springer Nature *This book is a liber amicorum to Professor Sergei Konstantinovich Godunov and gathers contributions by renowned scientists in honor of his 90th birthday. The contributions address those fields that Professor Godunov is most famous for: differential and difference equations, partial differential equations, equations of mathematical physics, mathematical modeling, difference schemes, advanced computational methods for hyperbolic equations, computational methods for linear algebra, and mathematical problems in continuum mechanics.*

New Syllabus Mathematics Workbook 4

6th Edition

Shing Lee Publishers Pte Ltd *New Syllabus Mathematics Workbook (Express) is written in line with the new Singapore-Cambridge GCE �O� Level Examination and the new initiatives of the Ministry of Education. The workbook consists of exercises which prepare students for their examinations. The more difficult questions are marked with an *. To encourage student-centred learning, the workbook includes non-routine types of worksheets that are classified under the section, Alternative Assessment. These worksheets encourage students to learn independently through carefully-guided steps and the use of IT. Students are motivated to investigate mathematical concepts with various methods and think critically, so that they will understand and appreciate the concepts better. The teacher can gauge the students� learning by assessing the work with the scoring rubric found at. the end of the relevant worksheets. The workbook is accompanied with a CD-ROM that contains templates to be used with some worksheets. It is hoped that with the use of various pedagogies, different types of students will be inspired to achieve success in mathematics.*

A Level Further Mathematics for AQA Student Book 1 (AS/Year 1)

Cambridge University Press *New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision. Written for the AQA AS/A Level Further Mathematics specifications for first teaching from 2017, this print Student Book covers the compulsory content for AS and the first year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and consolidate learning, providing a clear and structured pathway for progressing through the course. It is underpinned by a strong pedagogical approach, with an emphasis on skills development and the synoptic nature of the course. Includes answers to aid independent study. This book has entered an AQA approval process.*

What is Mathematics?

An Elementary Approach to Ideas and Methods

Oxford University Press, USA *A discussion of fundamental mathematical principles from algebra to elementary calculus designed to promote constructive mathematical reasoning.*

Formulation and Numerical Solution of Quantum Control Problems

SIAM *This book provides an introduction to representative nonrelativistic quantum control problems and their theoretical analysis and solution via modern computational techniques. The quantum theory framework is based on the Schr?dinger picture, and the optimization theory, which focuses on functional spaces, is based on the Lagrange formalism. The computational techniques represent recent developments that have resulted from combining modern numerical techniques for quantum evolutionary equations with sophisticated optimization schemes. Both finite and infinite-dimensional models are discussed, including the three-level Lambda system arising in quantum optics, multispin systems in NMR, a charged particle in a well potential, Bose?Einstein condensates, multiparticle spin systems, and multiparticle models in the time-dependent density functional framework. This self-contained book covers the formulation, analysis, and numerical solution of quantum control problems and bridges scientific computing, optimal control and exact controllability, optimization with differential models, and the sciences and engineering that require quantum control methods. ??*

The Mystery to a Solution

Poe, Borges, and the Analytic Detective Story

JHU Press *Irwin mirrors the aesthetic impact of the genre by creating in his study the dynamics of a detective story—the uncovering of mysteries, the accumulation of evidence, the tracing of clues, and the final solution that ties it all together.*

Challenging Problems in Geometry

Courier Corporation *Collection of nearly 200 unusual problems dealing with congruence and parallelism, the Pythagorean theorem, circles, area relationships, Ptolemy and the cyclic quadrilateral, collinearity and concurrency and more. Arranged in order of difficulty. Detailed solutions.*

Iterative Methods for the Solution of Equations

American Mathematical Soc. *Presents a general theory of iteration algorithms for the numerical solution of equations and systems of equations. This book investigates the relationship between the quantity and the quality of information that is used by an algorithm.*

Oxford Textbook of Global Public Health

Oxford University Press *Sixth edition of the hugely successful, internationally recognised textbook on global public health and epidemiology comprehensively covering the scope, methods, and practice of the discipline.*

The Bookseller and the Stationery Trades' Journal

An Illustrated Monthly Record of the Book, Stationery, Leather Goods, and Allied Trades

Official organ of the book trade of the United Kingdom.

Mathematics of Complexity and Dynamical Systems

<u>Springer Science & Business Media</u> *Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity, systems theory, and dynamical systems from the perspective of pure and applied mathematics. Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self-organization, e.g. the spontaneous formation of temporal, spatial or functional structures. These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic. The more than 100 entries in this wide-ranging, single source work provide a comprehensive explication of the theory and applications of mathematical complexity, covering ergodic theory, fractals and multifractals, dynamical systems, perturbation theory, solitons, systems and control theory, and related topics. Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity, from undergraduate and graduate students up through professional researchers.*

Separable Optimization

Theory and Methods

<u>Springer Nature</u> *In this book, the theory, methods and applications of separable optimization are considered. Some general results are presented, techniques of approximating the separable problem by linear programming problem, and dynamic programming are also studied. Convex separable programs subject to inequality/ equality constraint(s) and bounds on variables are also studied and convergent iterative algorithms of polynomial complexity are proposed. As an application, these algorithms are used in the implementation of stochastic quasigradient methods to some separable stochastic programs. The problems of numerical approximation of tabulated functions and numerical solution of overdetermined systems of linear algebraic equations and some systems of nonlinear equations are solved by separable convex unconstrained minimization problems. Some properties of the Knapsack polytope are also studied. This second edition includes a substantial amount of new and revised content. Three new chapters, 15-17, are included. Chapters 15-16 are devoted to the further analysis of the Knapsack problem. Chapter 17 is focused on the analysis of a nonlinear transportation problem. Three new Appendices (E-G) are also added to this edition and present technical details that help round out the coverage. Optimization problems and methods for solving the problems considered are interesting not only from the viewpoint of optimization theory, optimization methods and their applications, but also from the viewpoint of other fields of science, especially the artificial intelligence and machine learning fields within computer science. This book is intended for the researcher, practitioner, or engineer who is interested in the detailed treatment of separable programming and wants to take advantage of the latest theoretical and algorithmic results. It may also be used as a textbook for a special topics course or as a supplementary textbook for graduate courses on nonlinear and convex optimization.*

Lyapunov Functionals and Stability of Stochastic Difference Equations

<u>Springer Science & Business Media</u> *Hereditary systems (or systems with either delay or after-effects) are widely used to model processes in physics, mechanics, control, economics and biology. An important element in their study is their stability. Stability conditions for difference equations with delay can be obtained using a Lyapunov functional. Lyapunov Functionals and Stability of Stochastic Difference Equations describes a general method of Lyapunov functional construction to investigate the stability of discrete- and continuous-time stochastic Volterra difference equations. The method allows the investigation of the degree to which the stability properties of differential equations are preserved in their difference analogues. The text is self-contained, beginning with basic definitions and the mathematical fundamentals of Lyapunov functional construction and moving on from particular to general stability results for stochastic difference equations with constant coefficients. Results are then discussed for stochastic difference equations of linear, nonlinear, delayed, discrete and continuous types. Examples are drawn from a variety of physical systems including inverted pendulum control, study of epidemic development, Nicholson's blowflies equation and predator–prey relationships. Lyapunov Functionals and Stability of Stochastic Difference Equations is primarily addressed to experts in stability theory but will also be of use in the work of pure and computational mathematicians and researchers using the ideas of optimal control to study economic, mechanical and biological systems.*

Macromolecules in Solution and Brownian Relativity

<u>Academic Press</u> *Macromolecules in Solution and Brownian Relativity illustrates the recent picture of statistical physics of polymers and polymer solutions that emerges from some paradigms of contemporary science joint together. Among its principal aims are discussing the consequences of a novel self-diffusion theory, which benefits from an extension towards relativistic-like principles, and the generalization of usual concepts met in polymer science in terms of geometry alone. The monograph gives the whole fundamentals necessary to handle the view proposed, which is set in the final chapters. All the formers see about to provide the reader with a comprehensive treatation of the necessary fundamentals of classical, relativistic, quantum and statistical mechanics. Among the most important mechanical theories ever developed, a chapter on the Brownian movement and another on macromolecules prepare the ground that is specific to face universality and scaling behaviors in polymer solutions. The scope of the book is therefore two-fold: On the one hand, it wishes to involve the readers and scholars into a new research on polymer physics and chemistry. On the other, to get close chemical physicists and physical chemists to disciplines which, traditionally, are far from their direct fields of interest. Cross-disciplinarity Novelty Potentiality*