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Cambridge IGCSE® Mathematics Core and Extended Coursebook Springer
New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision. Written for the OCR AS/A Level Further Mathematics specification for first teaching from 2017, this print Student Book covers the Statistics content for AS and 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.

40 Years at the Cutting Edge of Research in Insurance Economics
Springer

In January 1976, Raymond Barre, the first President of The Geneva Association, and Orio Giarini, its first Secretary General, founded The Geneva Papers on Risk and Insurance with the main goal of supporting and encouraging research in the economics of risk and insurance. At that time, research in the field of insurance was still embryonic and insurance was regarded as peripheral social activity. When sustained economic growth gained traction, the function of insurance gradually emerged as a key contributor to economic development. By integrating uncertainty into economic theory and benefiting from the progress of both financial economics and decision theory, research developed further in the field of insurance economics and risk management, and is now prolific. The Geneva Papers on Risk and Insurance undeniably contributed to this evolution and its impact on research in insurance has largely exceeded what its two founding

members could have expected. This volume is a special collection of papers celebrating 40 Years of The Geneva Papers on Risk and Insurance. The collection looks back at the storied history of The Geneva Papers on Risk and Insurance and features papers from some of the esteemed authors who have contributed to the journal in its lifetime. This collection of papers highlights just a few of the many themes addressed in the papers published by the journal since it was created. Nevertheless, the selection exemplifies the richness and variety of topics the field of insurance covers.

Perspectives on Interrogative Models of Inquiry Cambridge University Press

This series has been developed specifically for the Cambridge International AS & A Level Mathematics (9709) syllabus to be examined from 2020. Cambridge International AS & A Level Mathematics: Pure Mathematics 2 & 3 matches the corresponding units of the syllabus. It clearly indicates materials required for P3 study only, and contains materials on topics such as logarithmic and exponential functions, trigonometry, differentiation, integration, numerical solutions of equations, vectors and complex numbers. This coursebook contains a variety of features including recap sections for students to check their prior knowledge, detailed explanations and worked examples, end-of-chapter and cross-topic review exercises and 'Explore' tasks to encourage deeper thinking around mathematical concepts. Answers to coursebook questions are at the back of the book.

A Level Further Mathematics for OCR A Statistics Student Book (AS/A Level) Springer

Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage. This coursebook has been revised and updated to ensure that it meets the requirements for the Pure Mathematics 2 and 3 (P2 and P3) units of Cambridge AS and A Level Mathematics (9709). Additional materials have been added to sections on logarithmic and exponential functions, the derivative of $\tan x$ and vectors. All of the review questions have been updated to reflect changes in the style of questions asked in the course.

Effectiveness of teachers' guides in the Global South CRC 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 Further Mathematics specification for first teaching from 2017, this print Student Book covers the Mechanics content for AS and 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.

Noncompact Semisimple Lie Algebras and Groups Cambridge University Press

This book is a printed edition of the Special Issue "Harmonic Oscillators In Modern Physics" that was published in Symmetry

Industrial Networks and Intelligent Systems Springer Science & Business Media

This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Conference on Smart Cities and Green ICT Systems, SMARTGREENS 2016, and the Second International Conference on Vehicle Technology and Intelligent Transport Systems, VEHITS 2016, held in Rome, Italy, in April 2016. The 11 full papers of SMARTGREENS 2016 presented were carefully reviewed and selected from 72 submissions. VEHITS 2016 received 49 paper submissions from which 5 papers were selected and published in this book. The papers reflect topics such as smart cities, energy-aware systems and technologies, sustainable computing and communications, sustainable transportation and smart mobility.

Arbeitstagung Bonn 2013 Arihant Publications India limited

The 2008 financial crisis was a watershed moment which clearly influenced the public's perception of the role of 'finance' in society. Since 2008, a plethora of books and newspaper articles have been produced accusing the academic community of being unable to produce valid models which can accommodate those extreme events. This unique Handbook brings together leading practitioners and academics in the areas of banking, mathematics, and law to present original research on the key issues affecting financial modelling since the 2008 financial crisis. As well as exploring themes of distributional assumptions and efficiency the Handbook also explores how financial modelling can possibly be re-interpreted in light of the 2008 crisis.

The Collaborative Moment Frontiers E-books

This edited book brings together for the first time an international collection of work focused on two important aspects of any young child's life – learning mathematics and starting primary or elementary school. The chapters take a variety of perspectives, and integrate these two components in sometimes explicit and sometimes more subtle ways. The key issues and themes explored in this book are: the mathematical and other strengths that all participants in the transition to school bring to this period of a child's life; the opportunities provided by transition to school for young children's mathematics learning; the importance of partnerships among adults, and among adults and children, for effective school transitions and mathematics learning and teaching; the critical impact of expectations on their mathematics learning as children start school; the importance of providing children with meaningful, challenging and relevant mathematical experiences throughout transition to school; the entitlement of children and educators to experience assessment and instructional pedagogies that match the strengths of the learners and the teachers; the importance for the aspirations of children, families, communities, educators and educational organisations to be recognised as legitimate and key determinants of actions, experiences and successes in both transition to school and mathematics learning; and the belief that young children are powerful mathematics learners who can demonstrate this power as they start school. In each chapter, authors reflect on their work in the area of mathematics and transition to school, place that work within the overall context of research in these fields, predict the trajectory of this work in the future, and consider the implications of the work both theoretically and practically.

Ships and Offshore Structures XIX Springer

This book constitutes the joint refereed proceedings of the 16th International Conference on Next Generation Wired/Wireless Advanced Networks and Systems, NEW2AN 2016, and the 9th Conference on Internet of Things and Smart Spaces, ruSMART 2016, held in St. Petersburg, Russia, in September 2016. The 69 revised full papers were carefully reviewed and selected from 204 submissions. The 12 papers selected for ruSMART are organized in topical sections on new generation of smart services; smart services serving telecommunication networks; role of context for smart services; and smart services in automotive industry. The 57 papers from NEW2AN deal with

the following topics: cooperative communications; wireless networks; wireless sensor networks; security issues; IoT and industrial IoT; NoC and positioning; ITS; network issues; SDN; satellite communications; signals and circuits; advanced materials and their properties; and economics and business.

Dynamical Systems Springer

Cambridge O Level Mathematics is a resource to accompany the revised 4024 syllabus. This coursebook provides a complete course for developing and practising the skills required for the O Level Mathematics qualification. The content has been written to offer a range of tasks that support all aspects of the Cambridge O Level Mathematics syllabus (4024) giving students the confidence to use the mathematical techniques required to solve the range of maths problems required. With detailed explanations of concepts, worked examples and exercises, this coursebook can be used as a classroom text and for self-study.

Cambridge International AS and A Level Mathematics: Statistics 2 Coursebook CRC Press

This book presents a research focus on diversity and inclusivity in mathematics education. The challenge of diversity, largely in terms of student profiles or contextual features, is endemic in mathematics education, and is often argued to require differentiation as a response. Typically different curricula, text materials, task structures or pedagogies are favoured responses, but huge differences in achievement still result. If we in mathematics education seek to challenge that status quo, more research must be focussed not just on diversity but also on the inclusivity, of practices in mathematics education. The book is written by a group of experienced collaborating researchers who share this focus. It is written for researchers, research students, teachers and in-service professionals, who recognise both the challenges but also the opportunities of creating and evaluating new inclusive approaches to curriculum and pedagogy – ones that take for granted the positive values of diversity. Several chapters report new research in this direction. The authors are part of, or have visited with, the mathematics education staff of the Faculty of Education at Monash University, in Melbourne, Australia. The chapters all focus on the ideas of development in both research and practice, recognising that the current need is for new inclusive approaches. The studies presented are set in different contexts, including Australia, China, the United States, and Singapore.

International Journal of Mathematical Combinatorics, Volume 2, 2013 Cambridge University Press

Searching for small gaps between consecutive primes is one way to approach the twin primes conjecture, one of the most celebrated unsolved problems in number theory. This book documents the remarkable developments of recent decades, whereby an upper bound on the known gap length between infinite numbers of consecutive primes has been reduced to a tractable finite size. The text is both introductory and complete: the detailed way in which results are proved is fully set out and plenty of background material is included. The reader journeys from selected historical theorems to the latest best result, exploring the contributions of a vast array of mathematicians, including Bombieri, Goldston, Motohashi, Pintz, Yildirim, Zhang, Maynard, Tao and Polymath8. The book is supported by a linked and freely-available package of computer programs. The material is suitable for graduate students and of interest to any mathematician curious about recent breakthroughs in the field.

Towards Inclusive Practices Springer

Correlated activity in populations of neurons has been observed in many brain regions and plays a central role in cortical coding, attention, and network dynamics. Accurately quantifying neuronal correlations presents several difficulties. For example, despite recent advances in multicellular recording techniques, the number of neurons from which spiking activity can be simultaneously recorded remains orders magnitude smaller than the size of local networks. In addition, there is a lack of consensus on the distribution of pairwise spike cross correlations obtained in extracellular multi-unit recordings. These challenges highlight the need for theoretical and computational approaches to understand how correlations emerge and to decipher their functional role in the brain.

Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM A Level Further Mathematics for OCR A Mechanics Student Book (AS/A Level)

This book is the fruit of a symposium in honor of Ted Eisenberg concerning the growing divide between the mathematics community and the mathematics education community, a divide that is clearly unhealthy for both. The work confronts this disturbing gap by considering the nature of the relationship between mathematics education and mathematics, and by examining areas of commonality as well as disagreement. It seeks to provide insight into the mutual benefit both stand to gain by building bridges based on the natural bonds between them.

A Level Further Mathematics for OCR A Mechanics Student Book (AS/A Level) MDPI

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.

Heterogeneous Data Management, Polystores, and Analytics for Healthcare RTI Press

This report presents the results of RTI International Education’s study on teachers’ guides across 13 countries and 19 projects. Using quantitative and qualitative methods, we examine how teachers’ guides across the projects differ and find substantial variation in the design and structure of the documents. We develop a scripting index so that the scripting levels of the guides can be compared across projects. The impact results of the programs that use teachers’ guides show significant impacts on learning outcomes, associated with approximately an additional half year of learning, showing that structured teachers’ guides contribute to improved learning outcomes. During observations, we find that teachers make a variety of changes in their classroom instruction from how the guides are written, showing that the utilization of structured teachers’ guides do not create robotic teachers unable to use their own professional skills to teach children. Unfortunately, many changes that teachers make reduce the amount of group work and interactivity that was described in the guides, suggesting that programs should encourage teachers to more heavily utilize the instructional routines designed in the guide. The report includes a set of research-based guidelines that material developers can use to develop teachers’ guides that will support effective instructional practices and help improve learning outcomes. The key takeaway from the report is that structured teachers’ guides improve learning outcomes, but that overly scripted teachers’ guides are somewhat less effective than simplified teachers’ guides that give specific guidance to the teacher but are not written word for word for each lesson in the guide.

The Geneva Papers Cambridge University Press

Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage. This coursebook has been revised and updated to ensure that it meets the requirements for the Pure Mathematics 1 (P1) unit of Cambridge AS and A Level Mathematics (9709). Additional materials have been added to sections on quadratics, coordinate geometry, vectors and differentiation. All of the review questions have been updated to reflect changes in the style of questions asked in the course.

Handbook of Journalism and Media: India, Bharat, Hindustan Birkhäuser

With applications in quantum field theory, elementary particle physics and general relativity, this two-volume work studies invariance of differential operators under Lie algebras, quantum groups, superalgebras including infinite-dimensional cases, Schrödinger algebras, applications to holography. This first volume covers the general aspects of Lie algebras and group theory supplemented by many concrete examples for a great variety of noncompact semisimple Lie algebras and groups.

Contents:IntroductionLie Algebras and GroupsReal Semisimple Lie AlgebrasInvariant Differential

OperatorsCase of the Anti-de Sitter GroupConformal Case in 4DKazhdan–Lusztig Polynomials, Subsingular Vectors, and Conditionally Invariant EquationsInvariant Differential Operators for Noncompact Lie AlgebrasParabolically Related to Conformal Lie AlgebrasMultilinear Invariant Differential Operators from New Generalized Verma ModulesBibliographyAuthor IndexSubject Index
Cambridge O Level Mathematics Coursebook Cambridge University Press
Printed Edition of the Special Issue Published in Entropy