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PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY

MATHEMATICAL AND PHYSICAL SCIENCES

REVOLUTIONS AND CONTINUITY IN GREEK MATHEMATICS

Walter de Gruyter GmbH & Co KG This volume brings together a number of leading scholars working in the field of ancient Greek mathematics to present their latest research. In their respective area of specialization, all contributors offer stimulating approaches to questions of historical and historiographical 'revolutions' and 'continuity'. Taken together, they provide a powerful lens for evaluating the applicability of Thomas Kuhn's ideas on 'scientific revolutions' to the discipline of ancient Greek mathematics. Besides the latest historiographical studies on 'geometrical algebra' and 'premodern algebra', the reader will find here some papers which offer new insights into the controversial relationship between Greek and pre-Hellenic mathematical practices. Some other contributions place emphasis on the other edge of the historical spectrum, by exploring historical lines of 'continuity' between ancient Greek, Byzantine and post-Hellenic mathematics. The terminology employed by Greek mathematicians, along with various non-textual and material elements, is another topic which some of the essays in the volume explore. Finally, the last three articles focus on a traditionally rich source on ancient Greek mathematics; namely the works of Plato and Aristotle.

DIFFERENTIAL GEOMETRY OF CURVES AND SURFACES

CRC Press Through two previous editions, the third edition of this popular and intriguing text takes both an analytical/theoretical approach and a visual/intuitive approach to the local and global properties of curves and surfaces. Requiring only multivariable calculus and linear algebra, it develops students' geometric intuition through interactive graphics applets. Applets are presented in Maple workbook format, which readers can access using the free Maple Player. The book explains the reasons for various definitions while the interactive applets offer motivation for definitions, allowing students to explore examples further, and give a visual explanation of complicated theorems. The ability to change parametric curves and parametrized surfaces in an applet lets students probe the concepts far beyond what static text permits. Investigative project ideas promote student research. At users of the previous editions' request, this third edition offers a broader list of exercises. More elementary exercises are added and some challenging problems are moved later in exercise sets to assure more graduated progress. The authors also add hints to motivate students grappling with the more difficult exercises. This student-friendly and readable approach offers additional examples, well-placed to assist student comprehension. In the presentation of the Gauss-Bonnet Theorem, the authors provide more intuition and stepping-stones to help students grasp phenomena behind it. Also, the concept of a homeomorphism is new to students even though it is a key theoretical component of the definition of a regular surface. Providing more examples show students how to prove certain functions are homeomorphisms.

MATHEMATICS IN INDUSTRIAL PROBLEMS

PART 3

Springer Science & Business Media This is the third volume in the series "Mathematics in Industrial Problems." The motivation for these volumes is to foster interaction between Industry and Mathematics at the "grass roots"; that is, at the level of specific problems. These problems come from Industry; they arise from models developed by the industrial scientists in ventures directed at the manufacture of new or improved products. At the same time, these problems have the potential for mathematical challenge and novelty. To identify such problems, I have visited industries and had discussions with their scientists. Some of the scientists have subsequently presented their problems in the IMA seminar on Industrial Problems. The book is based on questions raised in the seminar and subsequent discussions. Each chapter is devoted to one of the talks and is self-contained. The chapters usually provide references to the mathematical literature and a list of open problems which are of interest to the industrial scientists. For some problems partial solution is indicated briefly. The last chapter of the book contains a short description of solutions to some of the problems raised in the second volume, as well as references to papers in which such solutions have been published.

HANDBOOK OF TEICHMÜLLER THEORY

European Mathematical Society The Teichmüller space of a surface was introduced by O. Teichmüller in the 1930s. It is a basic tool in the study of Riemann's moduli spaces and the mapping class groups. These objects are fundamental in several fields of mathematics, including algebraic geometry, number theory, topology, geometry, and dynamics. The original setting of Teichmüller theory is complex analysis. The work of Thurston in the 1970s brought techniques of hyperbolic geometry to the study of Teichmüller space and its asymptotic geometry. Teichmüller spaces are also studied from the point of view of the representation theory of the fundamental group of the surface in a Lie group G , most notably $G = \mathrm{PSL}(2, \mathbb{R})$ and $G = \mathrm{PSL}(2, \mathbb{C})$. In the 1980s, there evolved an essentially combinatorial treatment of the Teichmüller and moduli spaces involving techniques and ideas from high-energy physics, namely from string theory. The current research interests include the quantization of Teichmüller space, the Weil-Petersson symplectic and Poisson geometry of this space as well as gauge-theoretic extensions of these structures. The quantization theories can lead to new invariants of hyperbolic 3-manifolds. The purpose of this handbook is to give a panorama of some of the most important aspects of Teichmüller theory. The handbook should be useful to specialists in the field, to graduate students, and more generally to mathematicians who want to learn about the subject. All the chapters are self-contained and have a pedagogical character. They are written by leading experts in the subject.

NEW HORIZONS IN GEOMETRY

American Mathematical Soc.

GRENZSCHICHTFORSCHUNG / BOUNDARY LAYER RESEARCH

SYMPOSIUM FREIBURG/BR. 26.BIS 29. AUGUST 1957 / SYMPOSIUM FREIBURG/BR. AUGUST 26-29, 1957

Springer Science & Business Media Der Beschluß des Generalrats der Internationalen Union für theoretische und Angewandte Mechanik (IUTAM), ein Symposium über Grenzschichtforschung vorzubereiten, war von dem Wunsch getragen, Wissenschaftlern aus aller Welt, die in eigenen Arbeiten zu den neueren Fortschritten auf diesem wichtigen Gebiet der Stromungsmechanik wesentlich beigetragen haben, zu gründlichen Diskussionen Gelegenheit zu geben. Die grundsätzlichen Probleme der Grenzschichtforschung sollten bei der Aussprache im Vordergrund stehen, die technischen Anwendungen im Hintergrund bleiben. Da eine echte Diskussion nur in einem relativ kleinen Kreis möglich ist, hat das Wissenschaftliche Komitee den Kreis der Teilnehmer beschränkt, dabei aber nach Möglichkeit Vertreter aus allen an den Fortschritten der Grenzschichtforschung beteiligten Nationen zusammengeführt. Die Teilnehmer wurden in Beratungen des Wissenschaftlichen Komitees ausgewählt und entweder zur Erstattung eines allgemeinen oder eines speziellen Berichtes eingeladen bzw. zur Teilnahme an den Diskussionsveranstaltungen aufgefordert. Das Ergebnis dieser Tagung legen wir hiermit vor. Im Druck sind alle jene Fragen und Bemerkungen aus den Diskussionen weggelassen worden, die sich durch das Vorliegen des vorliegenden Vortragsstoffes in diesem Buch von selbst erledigen, bzw. die durch nachträgliche Bearbeitung des Manuskriptes von den Autoren berücksichtigt worden sind. Wir empfinden es mit Dank als eine Ehrung, daß die erste Veranstaltung der IUTAM in Deutschland die Grenzschichtforschung behandelt und damit das Gedenken an LUDWIG PRANDTL wachhält, den Begründer der Grenzschichtforschung und den Förderer der modernen Stromungsforschung.

OXFORD MATHEMATICS FOR THE CARIBBEAN BOOK 3

Oxford University Press - Children This best-selling series is now in its sixth edition. Written by Maths expert, Nicholas Goldberg, this book has been updated to cover the latest syllabuses and provides extensive worked examples and practice. With a clear discovery-oriented approach that brings mathematics to life, this series can be relied upon to develop mathematical skills and build confidence in your students.

LECTURES ON ALGEBRAIC TOPOLOGY

Springer Science & Business Media Springer is reissuing a selected few highly successful books in a new, inexpensive softcover edition to make them easily accessible to younger generations of students and researchers. Springer-Verlag began publishing books in higher mathematics in 1920. This is a reprint of the Second Edition.

THE UNITED STATES CATALOG

SUPPLEMENT, JANUARY 1927-DECEMBER 1927; TWENTY-NINTH ANNUAL CUMULATION [OF] CUMULATIVE BOOK INDEX

NEW SYLLABUS MATHEMATICS

TEXTBOOK

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

INDIAN JOURNAL OF THEORETICAL PHYSICS

TIME-DOMAIN SCATTERING

Cambridge University Press The first thorough synthesis of methods for solving time-domain scattering problems, covering both theoretical and computational aspects.

UNDERSTANDING PHYSICS USING MATHEMATICAL REASONING

A MODELING APPROACH FOR PRACTITIONERS AND RESEARCHERS

Springer Nature This book speaks about physics discoveries that intertwine mathematical reasoning, modeling, and scientific inquiry. It offers ways of bringing together the structural domain of mathematics and the content of physics in one coherent inquiry. Teaching and learning physics is challenging because students lack the skills to merge these learning paradigms. The purpose of this book is not only to improve access to the understanding of natural phenomena but also to inspire new ways of delivering and understanding the complex concepts of physics. To sustain physics education in college classrooms, authentic training that would help develop high school students' skills of transcending function modeling techniques to reason scientifically is needed and this book aspires to offer such training The book draws on current research in developing students' mathematical reasoning. It identifies areas for advancements and proposes a conceptual framework that is tested in several case studies designed using that framework. Modeling Newton's laws using limited case analysis, Modeling projectile motion using parametric equations and Enabling covariational reasoning in Einstein formula for the photoelectric effect represent some of these case studies. A wealth of conclusions that accompany these case studies, drawn from the realities of classroom teaching, is to help physics teachers and researchers adopt these ideas in practice.

BOOKSELLER

A NEWSPAPER OF BRITISH AND FOREIGN LITERATURE

Vols. for 1871-76, 1913-14 include an extra number, The Christmas bookseller, separately paged and not included in the consecutive numbering of the regular series.

THE BOOKSELLER

Official organ of the book trade of the United Kingdom.

THE INFINITE IN MATHEMATICS

LOGICO-MATHEMATICAL WRITINGS

Springer Science & Business Media The main item in the present volume was published in 1930 under the title *Das Unendliche in der Mathematik und seine Ausschaltung*. It was at that time the fullest systematic account from the standpoint of Husserl's phenomenology of what is known as 'finitism' (also as 'intuitionism' and 'constructivism') in mathematics. Since then, important changes have been required in philosophies of mathematics, in part because of Kurt Godel's epoch-making paper of 1931 which established the essential incompleteness of arithmetic. In the light of that finding, a number of the claims made in the book (and in the accompanying articles) are demonstrably mistaken. Nevertheless, as a whole it retains much of its original interest and value. It presents the issues in the foundations of mathematics that were under debate when it was written (and in some cases still are); , and it offers one alternative to the currently dominant set-theoretical definitions of the cardinal numbers and other arithmetical concepts. While still a student at the University of Vienna, Felix Kaufmann was greatly impressed by the early philosophical writings (especially by the *Logische Untersuchungen*) of Edmund Husserl! He was never an uncritical disciple of Husserl, and he integrated into his mature philosophy ideas from a wide assortment of intellectual sources. But he thought of himself as a phenomenologist, and made frequent use in all his major publications of many of Husserl's logical and epistemological theses.

APPLIED MATHEMATICS FOR SCIENCE AND ENGINEERING

John Wiley & Sons Prepare students for success in using applied mathematics for engineering practice and post-graduate studies • moves from one mathematical method to the next sustaining reader interest and easing the application of the techniques • Uses different examples from chemical, civil, mechanical and various other engineering fields • Based on a decade's worth of the authors lecture notes detailing the topic of applied mathematics for scientists and engineers • Concisely writing with numerous examples provided including historical perspectives as well as a solutions manual for academic adopters

SUMS OF RECIPROCAL OF FRACTIONAL PARTS AND MULTIPLICATIVE DIOPHANTINE APPROXIMATION

American Mathematical Soc.

MATHEMATICAL THEORY OF ELASTICITY OF QUASICRYSTALS AND ITS APPLICATIONS

Springer Science & Business Media This inter-disciplinary work covering the continuum mechanics of novel materials, condensed matter physics and partial differential equations discusses the mathematical theory of elasticity of quasicrystals (a new condensed matter) and its applications by setting up new partial differential equations of higher order and their solutions under complicated boundary value and initial value conditions. The new theories developed here dramatically simplify the solving of complicated elasticity equation systems. Large numbers of complicated equations involving elasticity are reduced to a single or a few partial differential equations of higher order. Systematical and direct methods of mathematical physics and complex variable functions are developed to solve the equations under appropriate boundary value and initial value conditions, and many exact analytical solutions are constructed. The dynamic and non-linear analysis of deformation and fracture of quasicrystals in this volume presents an innovative approach. It gives a clear-cut, strict and systematic mathematical overview of the field. Comprehensive and detailed mathematical derivations guide readers through the work. By combining mathematical calculations and experimental data, theoretical analysis and practical applications, and analytical and numerical studies, readers will gain systematic, comprehensive and in-depth knowledge on continuum mechanics, condensed matter physics and applied mathematics.

MATHEMATICAL FINANCE: THEORY REVIEW AND EXERCISES

FROM BINOMIAL MODEL TO RISK MEASURES

Springer Science & Business Media The book collects over 120 exercises on different subjects of Mathematical Finance, including Option Pricing, Risk Theory, and Interest Rate Models. Many of the exercises are solved, while others are only proposed. Every chapter contains an introductory section illustrating the main theoretical results necessary to solve the exercises. The book is intended as an exercise textbook to accompany graduate courses in mathematical finance offered at many universities as part of degree programs in Applied and Industrial Mathematics, Mathematical Engineering, and Quantitative Finance.

OXFORD MATHEMATICS FOR THE CARIBBEAN CSEC®

Oxford University Press - Children This best-selling title is now in its sixth edition. Written by Maths guru, Nicholas Goldberg, this book has been updated to cover the latest CSEC syllabus and provides extensive worked examples and practice in the types of questions that feature in the examination. It now also features a chapter focusing specifically on the SBA. With a clear, discovery oriented approach that brings mathematics to life, this is a title that can be relied upon.

CLASSICAL FIELD THEORY

Courier Dover Publications This text concerns continuum mechanics, electrodynamics and the mechanics of electrically polarized media, and gravity. Geared toward advanced undergraduates and graduate students, it offers an accessible approach that formulates theories according to the principle of least action. The chief advantage of this formulation is its simplicity and ease, making the physical content of classical subjects available to students of physics in a concise form. Author Davison E. Soper, a Professor of Physics at the University of Oregon, intended this treatment as a primary text for courses in classical field theory as well as a supplement for courses in classical mechanics or classical electrodynamics. Topics include fields and transformation laws, the principle of stationary action, general features of classical field theory, the mechanics of fluids and elastic solids, special types of solids, nonrelativistic approximations, and the electromagnetic field. Additional subjects include electromagnetically polarized materials, gravity, momentum conservation in general relativity, and dissipative processes.

EDUCATIONAL TIMES

A REVIEW OF IDEAS AND METHODS

ALFRED NORTH WHITEHEAD ON LEARNING AND EDUCATION

THEORY AND APPLICATION










Cambridge Scholars Press "In this book a selection of 15 papers explores Whitehead's educational ideas which are based on his radical process approach. Following the Introduction which presents Whitehead's criticism of traditional education and the false psychology which it is based on, the book is divided into two major parts. The first part deals with Whitehead's philosophically inspired alternative theoretical framework for learning and education. Special focus is laid on the concept of the learning process which according to Whitehead is essentially cyclic in nature. In the second part it is shown how Whitehead's ideas can profitably be applied to different sub-domains within education: management education, college education and evaluation."--http://www.cambridgescholarspress.com.

COMPUTATIONAL NUMBER THEORY AND MODERN CRYPTOGRAPHY

John Wiley & Sons The only book to provide a unified view of the interplay between computational number theory and cryptography Computational number theory and modern cryptography are two of the most important and fundamental research fields in information security. In this book, Song Y. Yang combines knowledge of these two critical fields, providing a unified view of the relationships between computational number theory and cryptography. The author takes an innovative approach, presenting mathematical ideas first, thereupon treating cryptography as an immediate application of the mathematical concepts. The book also presents topics from number theory, which are relevant for applications in public-key cryptography, as well as modern topics, such as coding and lattice based cryptography for post-quantum cryptography. The author further covers the current research and applications for common cryptographic algorithms, describing the mathematical problems behind these applications in a manner accessible to computer scientists and engineers. Makes mathematical problems accessible to computer scientists and engineers by showing their immediate application Presents topics from number theory relevant for public-key cryptography applications Covers modern topics such as coding and lattice based cryptography for post-quantum cryptography Starts with the basics, then goes into applications and areas of active research Geared at a global audience; classroom tested in North America, Europe, and Asia Includes exercises in every chapter Instructor resources available on the book's Companion Website Computational Number Theory and Modern Cryptography is ideal for graduate and advanced undergraduate students in computer science, communications engineering, cryptography and mathematics. Computer scientists, practicing cryptographers, and other professionals involved in various security schemes will also find this book to be a helpful reference.

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   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.

JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS

MATHEMATICS AND MATHEMATICAL PHYSICS. B

A MATHEMATICAL APPROACH TO RESEARCH PROBLEMS OF SCIENCE AND TECHNOLOGY

THEORETICAL BASIS AND DEVELOPMENTS IN MATHEMATICAL MODELING

Springer This book deals with one of the most novel advances in mathematical modeling for applied scientific technology, including computer graphics, public-key encryption, data visualization, statistical data analysis, symbolic calculation, encryption, error correcting codes, and risk management. It also shows that mathematics can be used to solve problems from nature, e.g., slime mold algorithms. One of the unique features of this book is that it shows readers how to use pure and applied mathematics, especially those mathematical theory/techniques developed in the twentieth century, and developing now, to solve applied problems in several fields of industry. Each chapter includes clues on how to use "mathematics" to solve concrete problems faced in industry as well as practical applications. The target audience is not limited to researchers working in applied mathematics and includes those in engineering, material sciences, economics, and life sciences.

VITA MATHEMATICA

HISTORICAL RESEARCH AND INTEGRATION WITH TEACHING

Cambridge University Press Enables teachers to learn the history of mathematics and then incorporate it in undergraduate teaching.

HANDBOOK OF NEURAL COMPUTATION

CRC Press The Handbook of Neural Computation is a practical, hands-on guide to the design and implementation of neural networks used by scientists and engineers to tackle difficult and/or time-consuming problems. The handbook bridges an information pathway between scientists and engineers in different disciplines who apply neural networks to similar problems.

JORDAN TRIPLE SYSTEMS IN COMPLEX AND FUNCTIONAL ANALYSIS

American Mathematical Soc. This book is a systematic account of the impressive developments in the theory of symmetric manifolds achieved over the past 50 years. It contains detailed and friendly, but rigorous, proofs of the key results in the theory. Milestones are the study of the group of holomorphic automorphisms of bounded domains in a complex Banach space (Vigué and Upmeyer in the late 1970s), Kaup's theorem on the equivalence of the categories of symmetric Banach manifolds and that of hermitian Jordan triple systems, and the culminating point in the process: the Riemann mapping theorem for complex Banach spaces (Kaup, 1982). This led to the introduction of wide classes of Banach spaces known as JB*-triples and JBW*-triples whose geometry has been thoroughly studied by several outstanding mathematicians in the late 1980s. The book presents a good example of fruitful interaction between different branches of mathematics, making it attractive for mathematicians interested in various fields such as algebra, differential geometry and, of course, complex and functional analysis.

HYDRODYNAMICS AND SOUND

Cambridge University Press There is a certain body of knowledge and methods that finds application in most branches of fluid mechanics. This book aims to supply a proper theoretical understanding that will permit sensible simplifications to be made in the formulation of problems, and enable the reader to develop analytical models of practical significance. Such analyses can be used to guide more detailed experimental and numerical investigations. As in most technical subjects, such understanding is acquired by detailed study of highly simplified 'model problems'. The first part (Chapters 1-4) is concerned entirely with the incompressible flow of a homogeneous fluid. It was written for the Boston University introductory graduate level course 'Advanced Fluid Mechanics'. The remaining Chapters 5 and 6 deal with dispersive waves and acoustics, and are unashamedly inspired by James Lighthill's masterpiece, *Waves in Fluids*.

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.

WHO'S WHO IN NEW ZEALAND

LITERARY WORLD; CHOICE READINGS FROM THE BEST NEW BOOKS, WITH CRITICAL REVIEWS

HANDBOOK OF MATHEMATICS FOR ENGINEERS AND SCIENTISTS

CRC Press The Handbook of Mathematics for Engineers and Scientists covers the main fields of mathematics and focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology. To accommodate different mathematical backgrounds, the preeminent authors outline the material in a simplified, schematic manner, avoiding special terminology wherever possible. Organized in ascending order of complexity, the material is divided into two parts. The first part is a coherent survey of the most important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra, differential and integral calculus, special functions, calculus of variations, and probability theory. Numerous specific examples clarify the methods for solving problems and equations. The second part provides many in-depth mathematical tables, including those of exact solutions of various types of equations. This concise, comprehensive compendium of mathematical definitions, formulas, and theorems provides the foundation for exploring scientific and technological phenomena.

VISCOUS FLOWS

STRETCHING AND SHRINKING OF SURFACES

Springer This authored monograph provides a detailed discussion of the boundary layer flow due to a moving plate. The topical focus lies on the 2- and 3-dimensional case, considering axially symmetric and unsteady flows. The author derives a criterion for the self-similar and non-similar flow, and the turbulent flow due to a stretching or shrinking sheet is also discussed. The target audience primarily comprises research experts in the field of boundary layer flow, but the book will also be beneficial for graduate students.

THE LIFE AND WORK OF LEON HENKIN

ESSAYS ON HIS CONTRIBUTIONS

Springer This is a comprehensive book on the life and works of Leon Henkin (1921-2006), an extraordinary scientist and excellent teacher whose writings became influential right from the beginning of his career with his doctoral thesis on "The completeness of formal systems" under the direction of Alonzo Church. Upon the invitation of Alfred Tarski, Henkin joined the Group in Logic and the Methodology of Science in the Department of Mathematics at the University of California Berkeley in 1953. He stayed with the group until his retirement in 1991. This edited volume includes both foundational material and a logic perspective. Algebraic logic, model theory, type theory, completeness theorems, philosophical and foundational studies are among the topics covered, as well as mathematical education. The work discusses Henkin's intellectual development, his relation to his predecessors and contemporaries and his impact on the recent development of mathematical logic. It offers a valuable reference work for researchers and students in the fields of philosophy, mathematics and computer science.