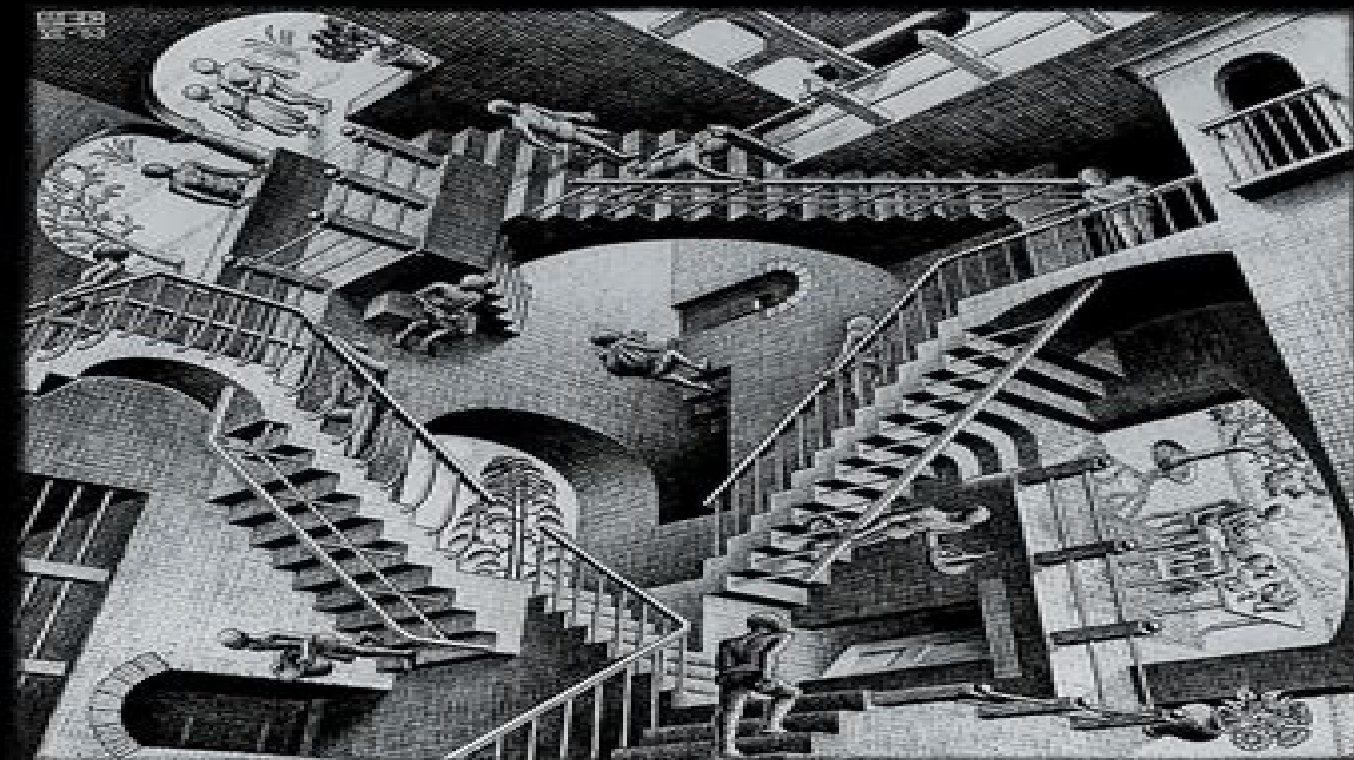# Modern Mathematical Methods for Scientists and Engineers

a street-smart introduction

Athanassios Fokas • Efthimios Kaxiras

Modern Mathematical Topics

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In Contemporary Mathematical Physics Kai S Lam,2003-06-06 This textbook pitched at the advanced undergraduate to beginning graduate level focuses on mathematical topics of relevance in contemporary physics that are not usually covered in texts at the same level Its main purpose is to help students appreciate and take advantage of the modern trend of very productive symbiosis between physics and mathematics Three major areas are covered 1 linear operators 2 group representations and Lie algebra representations 3 topology and differential geometry The following are noteworthy features of this book the style of exposition is a fusion of those common in the standard physics and mathematics literatures the level of exposition varies from quite elementary to moderately advanced so that the book is of interest to a wide audience despite the diversity of the topics covered there is a strong degree of thematic unity much care is devoted to detailed cross referencing so that from any part of the book the reader can trace easily where specific concepts or techniques are introduced   **Topics In Contemporary Mathematical Physics (Second Edition)** Kai S Lam,2015-09-17 This new second edition contains a general treatment of quantum field theory QFT in a simple scalar field setting in addition to the modern material on the applications of differential geometry and topology group theory and the theory of linear operators to physics found in the first edition All these are introduced without assuming more background on the part of the reader than a good foundation in undergraduate junior level mathematical physics The new material entirely focuses on an introduction to quantum field theory emphasizing the Feynman path functional integral approach to QFT and the renormalization group With respect to the latter the focus is on an introduction of its application to critical phenomena in statistical physics following the outgrowth of the Callan Symanzik equation originally developed in the context of high energy physics and the seminal contributions of Kenneth Wilson One of the overriding aims of the new material is also to draw students attention to the deep connections between high energy physics and statistical mechanics The unavoidable technical aspects are explained with a minimum of prerequisite material and jargon and conceptual understanding is always given prominence before mastery of technical details but the importance of the latter is never underestimated Derivational details and motivational discussions are provided in abundance in order to ensure continuity of reading and to avoid trying the readers patience   **Topics in Contemporary Mathematical Analysis and Applications** Hemen Dutta,2020-12-22 Topics in Contemporary Mathematical Analysis and Applications encompasses several contemporary topics in the field of mathematical analysis their applications and relevancies in other areas of research and study The readers will find developments concerning the topics presented to a reasonable extent with various new problems for further study Each chapter carefully presents the related problems and issues methods of solutions and their possible applications or relevancies in other scientific areas Aims at enriching the understanding of methods problems and applications Offers an understanding of research problems by presenting the necessary developments in reasonable details Discusses applications and uses of operator theory fixed point theory inequalities bi univalent functions functional equations and scalar objective programming and presents various associated

problems and ways to solve such problems This book is written for individual researchers educators students and department libraries   Modern Mathematics Dirk De Bock,2023-03-08 The international New Math developments between about 1950 through 1980 are regarded by many mathematics educators and education historians as the most historically important development in curricula of the twentieth century It attracted the attention of local and international politicians of teachers and of parents and influenced the teaching and learning of mathematics at all levels kindergarten to college graduate in many nations After garnering much initial support it began to attract criticism But as Bill Jacob and the late Jerry Becker show in Chapter 17 some of the effects became entrenched This volume edited by Professor Dirk De Bock of Belgium provides an outstanding overview of the New Math modern mathematics movement Chapter authors provide exceptionally high quality analyses of the rise of the movement and of subsequent developments within a range of nations The first few chapters show how the initial leadership came from mathematicians in European nations and in the United States of America The background leaders in Europe were Caleb Gattegno and members of a mysterious group of mainly French pure mathematicians who since the 1930s had published under the name of a fictitious Nicolas Bourbaki In the United States there emerged during the 1950s various attempts to improve U S mathematics curricula and teaching especially in secondary schools and colleges This side of the story climaxed in 1957 when the Soviet Union succeeded in launching Sputnik the first satellite Undoubtedly this is a landmark publication in education The foreword was written by Professor Bob Moon one of a few other scholars to have written on the New Math from an international perspective The final epilogue chapter by Professor Geert Vanpaemel a historian draws together the overall thrust of the volume and makes links with the general history of curriculum development especially in science education including recent globalization trends   Topics in Modern Mathematics ,1961   **Some Modern Mathematics for Physicists and Other Outsiders** Paul Roman,2014-05-09 Some Modern Mathematics for Physicists and Other Outsiders An Introduction to Algebra Topology and Functional Analysis Volume 1 focuses on the operations principles methodologies and approaches employed in algebra topology and functional analysis The publication first offers information on sets maps and algebraic composition laws and systems Discussions focus on morphisms of algebraic systems sequences and families cardinal numbers ordered sets and maps equivalence relations and maps composite functions and inverses operations with sets and relations in sets The text then ponders on special algebraic systems topological spaces and topological spaces with special properties Topics include complete metric spaces compact spaces separable and connected spaces homeomorphism and isometry convergence continuity general structure of topological spaces rings and fields linear spaces linear algebras and nonassociative algebras The book elaborates on the theory of integration and measure spaces including measurable spaces general properties of the integral and measureable functions The publication is a valuable reference for theoretical physicists research engineers and scientists who are concerned with structural problems   **Topics in Contemporary Mathematical Physics** Kai Shue Lam,2003 This textbook

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