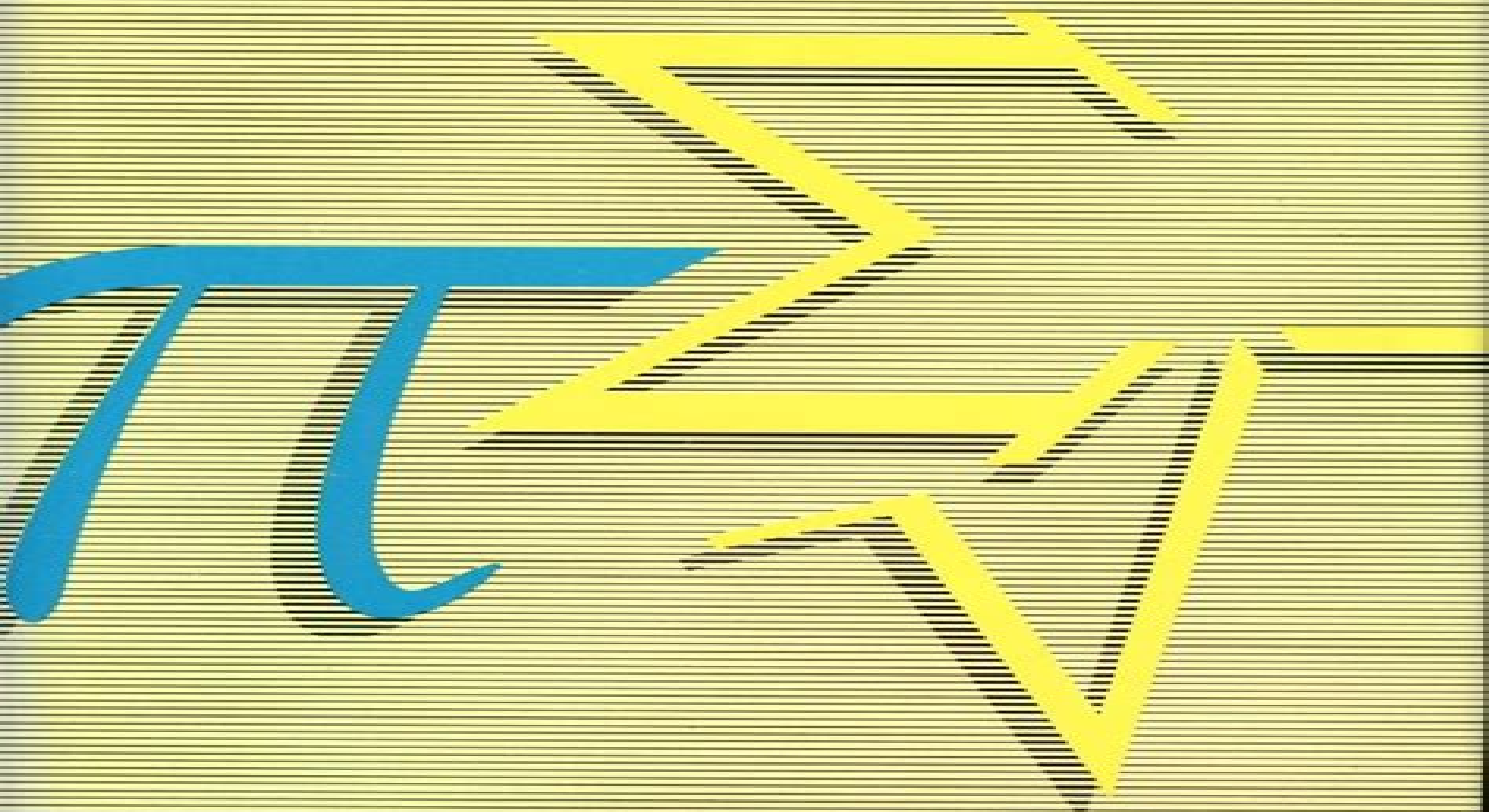


MATHEMATICS

Its Content, Methods and Meaning
Volume Two



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Mathematics Its Content Methods Volume 2

Yakov Sinai



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few if any introductions to topology for undergraduates This book remedied that need by offering a carefully thought out graduated approach to point set topology at the undergraduate level To make the book as accessible as possible the author approaches topology from a geometric and axiomatic standpoint geometric because most students come to the subject with a good deal of geometry behind them enabling them to use their geometric intuition axiomatic because it parallels the student's experience with modern algebra and keeps the book in harmony with current trends in mathematics After a discussion of such preliminary topics as the algebra of sets Euler Venn diagrams and infinite sets the author takes up basic definitions and theorems regarding topological spaces Chapter 1 The second chapter deals with continuous functions mappings and homeomorphisms followed by two chapters on special types of topological spaces varieties of compactness and varieties of connectedness Chapter 5 covers metric spaces Since basic point set topology serves as a foundation not only for functional analysis but also for more advanced work in point set topology and algebraic topology the author has included topics aimed at students with interests other than analysis Moreover Dr Baum has supplied quite detailed proofs in the beginning to help students approaching this type of axiomatic mathematics for the first time Similarly in the first part of the book problems are elementary but they become progressively more difficult toward the end of the book References have been supplied to suggest further reading to the interested student

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unique in English as a refresher for engineers technicians and students who either wish to brush up their calculus or find parts of calculus unclear It is not an ordinary textbook It is instead an examination of the most important aspects of integral

and differential calculus in terms of the 756 questions most likely to occur to the technical reader. It provides a very easily followed presentation and may also be used as either an introductory or supplementary textbook. The first part of this book covers simple differential calculus with constants, variables, functions, increments, derivatives, differentiation, logarithms, curvature of curves and similar topics. The second part covers fundamental ideas of integration, inspection, substitution, transformation, reduction, areas and volumes, mean value, successive and partial integration, double and triple integration. In all cases the author stresses practical aspects rather than theoretical and builds upon such situations as might occur. A 50 page section illustrates the application of calculus to specific problems of civil and nautical engineering, electricity, stress and strain, elasticity, industrial engineering and similar fields. 756 questions answered, 566 problems to measure your knowledge and improvement, answers, 36 pages of useful constants, formulae for ready reference, Index.

Introduction to Elementary Mathematical Logic Abram Aronovich Stolyar, 1984-01-01. This lucid, non-intimidating presentation by a Russian scholar explores propositional logic, propositional calculus and predicate logic. Topics include computer science and systems analysis, linguistics and problems in the foundations of mathematics. Accessible to high school students, it also constitutes a valuable review of fundamentals for professionals. 1970 edition.

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