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**Their Solvers** focuses on the people of mathematics and draws the reader into their fascinating world. In a monumental address, given to the International Congress of Mathematicians in Paris in 1900, David Hilbert,

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**Their Solvers** of hints... The third part, the longest, consists of solutions: proofs, answers, or constructions, depending on the nature of the problem... This is not an introduction to Hilbert space theory. Some knowledge



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of that subject is a prerequisite: at the very least, a study of the elements of Hilbert space theory should proceed concurrently with the reading of this book."

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Few problems in mathematics have had the status of those posed by David Hilbert in 1900. Mathematicians have made their reputations by solving some of them like Fermat's last theorem, but several remain unsolved

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Lasting impact on the mathematics of the twentieth century. In this fascinating book, the authors consider what makes this the pre-eminent collection of problems in mathematics, what they tell us about what

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Drives mathematicians, and the nature of reputation, influence and power in the world of modern mathematics. It is written in a clear and entertaining style and will appeal to anyone with interest in mathematics or

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Those mathematicians willing  
to try their hand at these  
problems.

Hilbert's tenth problem is  
one of 23 problems proposed  
by David Hilbert in 1900 at  
the International Congress

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of Mathematicians in Paris.  
These problems gave focus  
for the exponential  
development of mathematical  
thought over the following  
century. The tenth problem  
asked for a general  
algorithm to determine if a

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given Diophantine equation has a solution in integers. It was finally resolved in a series of papers written by Julia Robinson, Martin Davis, Hilary Putnam, and finally Yuri Matiyasevich in 1970. They showed that no



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Such algorithm exists. This book is an exposition of this remarkable achievement. Often, the solution to a famous problem involves formidable background. Surprisingly, the solution of Hilbert's tenth problem

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does not. What is needed is only some elementary number theory and rudimentary logic. In this book, the authors present the complete proof along with the romantic history that goes with it. Along the way, the

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The reader is introduced to Cantor's transfinite numbers, axiomatic set theory, Turing machines, and Gödel's incompleteness theorems. Copious exercises are included at the end of each chapter to guide the

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student gently on this ascent. For the advanced student, the final chapter highlights recent developments and suggests future directions. The book is suitable for undergraduates and graduate

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students. It is essentially self-contained.

On August 8, 1900, at the second International Congress of Mathematicians in Paris, David Hilbert delivered his famous lecture

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In which he described twenty-three problems that were to play an influential role in mathematical research. A century later, on May 24, 2000, at a meeting at the College de France, the Clay Mathematics Institute (CMI)

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announced the creation of a US\$7 million prize fund for the solution of seven important classic problems which have resisted solution. The prize fund is divided equally among the seven problems. There is no

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time limit for their  
solution. The Millennium  
Prize Problems were selected  
by the founding Scientific  
Advisory Board of CMI--Alain  
Connes, Arthur Jaffe, Andrew  
Wiles, and Edward  
Witten--after consulting



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with other leading  
mathematicians. Their aim  
was somewhat different than  
that of Hilbert: not to  
define new challenges, but  
to record some of the most  
difficult issues with which  
mathematicians were

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struggling at the turn of  
the second millennium; to  
recognize achievement in  
mathematics of historical  
dimension; to elevate in the  
consciousness of the general  
public the fact that in  
mathematics, the frontier is

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still open and abounds in important unsolved problems; and to emphasize the importance of working towards a solution of the deepest, most difficult problems. The present volume sets forth the official

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Description of each of the seven problems and the rules governing the prizes. It also contains an essay by Jeremy Gray on the history of prize problems in mathematics.

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This book results from a unique and innovative program at Pennsylvania State University. Under the program, the 'best of the best' students nationwide are chosen to study challenging mathematical

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theory (continued fractions,  
hyperbolic geometry and  
quadratic forms). Also  
provided are detailed  
descriptions of two  
innovative courses, one on  
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classical mechanics. These

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notes constitute what one may call the skeleton of a course, leaving the instructor ample room for innovation and improvisation. The second half of the book contains a large collection of essays

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on a broad spectrum of  
exciting topics from  
Hilbert's Fourth Problem to  
geometric inequalities and  
minimal surfaces, from  
mathematical billiards to  
fractals and tilings, from  
unprovable theorems to the

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Classification of finite  
simple groups and  
lexicographic codes.

David Hilbert (1862–1943)  
was the most influential  
mathematician of the early  
twentieth century and,

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Together with Henri Poincaré, the last mathematical universalist. His main known areas of research and influence were in pure mathematics (algebra, number theory, geometry, integral equations

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and analysis, logic and foundations), but he was also known to have some interest in physical topics. The latter, however, was traditionally conceived as comprising only sporadic incursions into a scientific



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domain which was essentially foreign to his mainstream of activity and in which he only made scattered, if important, contributions. Based on an extensive use of mainly unpublished archival sources, the present book

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presents a totally fresh and comprehensive picture of Hilbert's intense, original, well-informed, and highly influential involvement with physics, that spanned his entire career and that constituted a truly main

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focus of interest in his scientific horizon. His program for axiomatizing physical theories provides the connecting link with his research in more purely mathematical fields, especially geometry, and a

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unifying point of view from which to understand his physical activities in general. In particular, the now famous dialogue and interaction between Hilbert and Einstein, leading to the formulation in 1915 of the

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Generally covariant field-equations of gravitation, is adequately explored here within the natural context of Hilbert's overall scientific world-view. This book will be of interest to historians of physics and of

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Mathematics, to historically-minded physicists and mathematicians, and to philosophers of science.

In the twentieth century, American mathematicians began to make critical

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Advances in a field  
previously dominated by  
Europeans. Harvard's  
mathematics department was  
at the center of these  
developments. A History in  
Sum is an inviting account  
of the pioneers who

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Trailblazed a distinctly  
American tradition of  
mathematics--in algebraic  
geometry, complex analysis,  
and other esoteric  
subdisciplines that are  
rarely written about outside  
of journal articles or



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Advanced textbooks. The heady mathematical concepts that emerged, and the men and women who shaped them, are described here in lively, accessible prose. The story begins in 1825, when a precocious sixteen-

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Year-Old freshman, Benjamin Peirce, arrived at the College. He would become the first American to produce original mathematics--an ambition frowned upon in an era when professors largely limited themselves to

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Teaching. Peirce's successors transformed the math department into a world-class research center, attracting to the faculty such luminaries as George David Birkhoff. Influential figures soon flocked to

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great challenges to pursue  
their elected calling. A  
History in Sum elucidates  
the contributions of these  
extraordinary minds and  
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