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**Invitational  
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Library**

Education is an

*Page 2/158*  
Aime 1983 1988

Anneli Lax New

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admirable thing, but  
it is well to  
remember from  
time to time that  
nothing worth  
knowing can be  
taught. Oscar Wilde,  
“The Critic as  
Artist,” 1890.  
Analysis is a  
profound subject; it  
is neither easy to  
understand nor  
summarize.

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However, Real  
Analysis can be  
discovered by  
solving problems.  
This book aims to  
give independent  
students the  
opportunity to  
discover Real  
Analysis by  
themselves through  
problem solving. The  
depth and complexity  
of the theory of Anal

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ysis can be appreciated  
by taking a glimpse at  
its developmental  
history. Although  
Analysis was  
conceived in the  
17th century during  
the Scientific  
Revolution, it has  
taken nearly two  
hundred years to  
establish its  
theoretical basis.  
Kepler, Galileo,

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Descartes, Fermat,  
Newton and Leibniz  
were among those  
who contributed to  
its genesis. Deep  
conceptual changes  
in Analysis were  
brought about in the  
19th century by  
Cauchy and  
Weierstrass.

Furthermore,  
modern concepts  
such as open and

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closed sets were introduced in the 1900s. Today nearly every undergraduate mathematics program requires at least one semester of Real Analysis.

Often, students consider this course to be the most challenging or even intimidating of all

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their mathematics  
American High  
major requirements.  
School  
The primary goal of  
Mathematics  
this book is to  
Examinations  
alleviate those  
Answer American  
concerns by  
Invitational  
systematically  
Mathematics  
solving the  
Examinations  
problems related to  
AIME 1990-1998  
the core concepts  
Allen Lax New  
of most analysis  
Mathematical  
courses. In doing  
Library  
so, we hope that  
learning analysis



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becomes less taxing  
and thereby more  
satisfying.

If you like problem  
solving, this book  
belongs on your  
shelf. Some  
knowledge of linear  
or abstract algebra  
is needed for a few  
of the problems, but  
most require  
nothing beyond  
calculus, and many

*Page 9/158*

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should be  
accessible to high  
school students.

The book centers  
on solutions which  
are elegant,  
instructive, and  
clear. Often several  
solutions to the  
same problem are  
presented. There  
are many hints and  
comments to help  
you and to put

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solutions in a  
broader  
perspective. Indices  
are provided which  
may be especially  
helpful to problem  
solving classes and  
to teams of  
individuals  
preparing for  
contests such as  
the Putnam exam.  
This book collects  
approximately nine

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hundred problems that have appeared on the preliminary exams in Berkeley over the last twenty years. It is an invaluable source of problems and solutions. Readers who work through this book will develop problem solving skills in such areas as real

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analysis,  
multivariable  
calculus, differential  
equations, metric  
spaces, complex  
analysis, algebra,  
and linear algebra.

Experts estimate  
that as many as  
98,000 people die  
in any given year  
from medical errors  
that occur in  
hospitals. That's

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more than die from  
American High  
motor vehicle  
School  
accidents, breast  
Mathematics  
cancer, or  
Examinations  
AIDS – "three  
Ansine American  
causes that receive  
Invitational  
far more public  
Mathematics  
attention. Indeed,  
Examinations  
more people die  
Annals 1981-1990  
annually from  
Anneli Lax New  
medication errors  
Mathematical  
than from  
Library  
workplace injuries.  
Add the financial

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cost to the human  
American High  
tragedy, and  
School  
medical error easily  
Mathematics  
rises to the top  
Examinations  
ranks of urgent,  
Ansine American  
widespread public  
Invitational  
problems. To Err Is  
Mathematics  
Human breaks the  
Examinations  
silence that has  
Annex 1003-668  
surrounded medical  
Mathematical  
errors and their con  
Library  
sequence â €"but  
not by pointing  
fingers at caring  
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health care professionals who make honest mistakes. After all, to err is human. Instead, this book sets forth a national agenda "with state and local implications" for reducing medical errors and improving patient safety through the



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design of a safer  
health system. This  
volume reveals the  
often startling  
statistics of medical  
error and the  
disparity between  
the incidence of  
error and public  
perception of it,  
given many  
patients'  
expectations that  
the medical

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profession always  
performs perfectly.

A careful

examination is

made of how the

surrounding forces

of legislation,

regulation, and

market activity

influence the quality

of care provided by

health care

organizations and

then looks at their

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handling of medical  
American High  
mistakes. Using a  
School  
detailed case study,  
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the book reviews  
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the current  
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understanding of  
Invitational  
why these mistakes  
Mathematics  
happen. A key  
Examinations  
theme is that  
Annals 1983 1988  
legitimate liability  
Annex New  
concerns  
Mathematical  
discourage  
Library  
reporting of  
errors â €" which

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begs the question,  
"How can we learn  
from our mistakes?"

Balancing  
regulatory versus  
market-based  
initiatives and  
public versus  
private efforts, the  
Institute of  
Medicine presents  
wide-ranging  
recommendations  
for improving

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patient safety, in  
the areas of  
leadership,  
improved data  
collection and  
analysis, and  
development of  
effective systems  
at the level of direct  
patient care. To Err  
Is Human asserts  
that the problem is  
not bad people in  
health care – it is

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that good people  
are working in bad  
systems that need  
to be made safer.

Comprehensive and  
straightforward,  
this book offers a  
clear prescription  
for raising the level  
of patient safety in  
American health  
care. It also  
explains how  
patients themselves

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can influence the quality of care that they receive once they check into the hospital. This book will be vitally important to federal, state, and local health policy makers and regulators, health professional licensing officials, hospital

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administrators,  
American High  
medical educators  
Schools  
and students, health  
Mathematics  
caregivers, health  
Examinations  
journalists, patient  
Answer American  
advocates as well as patients  
Invitational  
themselves. First in  
Mathematics  
a series of  
Examinations  
publications from  
Answer 1988  
the Quality of  
Answer New  
Health Care in  
Mathematical  
America, a project  
Library  
initiated by the



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Institute of  
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Medicine  
School  
The Contest  
Problem Book VI:  
Mathematics  
American High  
Examinations  
School Mathematics  
Annual American  
Examinations  
Invitational  
1989-1994  
Mathematics  
The Contest  
Examinations  
Problem Book IX  
How the American  
Upper Middle Class  
Is Leaving  
Everyone Else in

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the Dust, Why That  
Is a Problem, and  
What to Do About It  
The Art of Failure  
The True Story of a  
Lone Genius Who  
Solved the Greatest  
Scientific Problem  
of His Time  
Building a Safer  
Health System  
The Contest Problem  
Book II Annual High

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School Contests, 196  
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1-1965 Mathematical  
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Assn of Amer The  
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Amsme American  
High School  
Invitational  
Mathematics  
Examinations  
Mathematics  
Examinations.  
1989-1994 American  
Aime 1983 1988  
Mathematical Soc.  
Anneli Lax New  
An exploration of  
Mathematical  
why we play video  
Library

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games despite the fact that we are almost certain to feel unhappy when we fail at them. We may think of video games as being "fun," but in *The Art of Failure*, Jesper Juul claims that this is almost entirely mistaken.

When we play video

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games, our facial expressions are rarely those of happiness or bliss. Instead, we frown, grimace, and shout in frustration as we lose, or die, or fail to advance to the next level. Humans may have a fundamental desire to succeed and

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feel competent, but  
game players choose  
to engage in an  
activity in which  
they are nearly  
certain to fail and  
feel incompetent. So  
why do we play  
video games even  
though they make us  
unhappy? Juul  
examines this

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paradox. In video games, as in tragic works of art, literature, theater, and cinema, it seems that we want to experience unpleasantness even if we also dislike it. Reader or audience reaction to tragedy is often explained as

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catharsis, as a purging of negative emotions. But, Juul points out, this doesn't seem to be the case for video game players. Games do not purge us of unpleasant emotions; they produce them in the first place. What, then, does failure in



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video game playing  
do? Juul argues that  
failure in a game is  
unique in that when  
you fail in a game,  
you (not a character)  
are in some way  
inadequate. Yet  
games also motivate  
us to play more, in  
order to escape that  
inadequacy, and the

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feeling of escaping  
failure (often by  
improving skills) is a  
central enjoyment of  
games. Games,  
writes Juul, are the  
art of failure: the  
singular art form that  
sets us up for failure  
and allows us to  
experience it and  
experiment with it.

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The Art of Failure is essential reading for anyone interested in video games, whether as entertainment, art, or education.

The Contest Problem Book VI contains 180 challenging problems from the six years of the

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American High  
School Mathematics  
Examinations  
(AHSME), 1989  
through 1994, as  
well as a selection of  
other problems. A  
Problems Index  
classifies the 180  
problems in the book  
into subject areas:  
algebra, complex

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numbers, discrete  
mathematics,  
number theory,  
statistics, and  
trigonometry.

For more than 50  
years, the

Mathematical  
Association of  
America has been  
engaged in the  
construction and

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administration of  
American High  
challenging contests  
School  
for students in  
Mathematics  
American and  
Examinations  
Canadian high  
Ahsme American  
schools. The  
Invitational  
problems for these  
Mathematics  
contests are  
Examinations  
constructed in the  
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hope that all high  
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school students  
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interested in  
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mathematics will  
American High  
have the opportunity  
School  
to participate in the  
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contests and will find  
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the experience  
Ahsme American  
mathematically  
Invitational  
enriching. These  
Mathematics  
contests are intended  
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for students at all  
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levels, from the  
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average student at a  
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typical school who  
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enjoys mathematics  
to the very best  
students at the most  
special school. In the  
year 2000, the  
Mathematical  
Association of  
America initiated the  
American  
Mathematics  
Competitions 10  
(AMC 10) for



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students up to grade  
10. The Contest  
School  
Problem Book VIII  
Mathematics  
is the first collection  
Examinations  
of problems from  
Ahsme American  
that competition  
Invitational  
covering the years  
Mathematics  
2001–2007. J.  
Examinations  
Douglas Faires and  
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David Wells were  
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the joint directors of  
Mathematical  
the AMC 10 and  
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Invitational  
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Examinations  
Aime 1983-1988  
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AMC 12 during that period, and have assembled this book of problems and solutions. There are 350 problems from the first 14 contests included in this collection. A Problem Index at the back of the book classifies the

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problems into the  
following major  
subject areas:

Algebra and  
Arithmetic,  
Sequences and  
Series, Triangle  
Geometry, Circle  
Geometry,  
Quadrilateral  
Geometry, Polygon  
Geometry, Counting

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Coordinate  
Geometry, Solid  
Geometry, Discrete  
Mathematics  
Probability,  
Examinations  
Statistics, Number  
Theory, and Logic.

The major subject  
Mathematics  
Examinations  
down into  
Aime 1983 1988  
subcategories for  
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ease of reference.  
Mathematical

The problems are  
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cross-referenced  
when they represent  
several subject areas.  
American  
Mathematics  
Competitions (AMC  
12) 2001-2007  
Contests  
Annual High School  
Contests, 1961-1965  
The Contest Problem  
Book VII: American  
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Competitions,  
1995–2000 Contests  
Mathematics  
Dream Hoarders  
Examinations  
American  
Ahsme American  
Mathematics  
Invitational  
Competitions  
Mathematics  
(AMC-10)  
Examinations  
2000-2007 Contests  
Aime 1983 1988  
Problem Book in the  
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Theory of Functions:  
Mathematical  
Problems in the  
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elementary theory of  
functions, translated  
by L. Bers

A comprehensive  
introduction to the tools,  
techniques and  
applications of convex  
optimization.

Gemma Doyle is back  
on the case in  
bestselling author Vicki  
Delany's seventh  
Sherlock Holmes

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Bookshop mystery when a poisoned dart ends in demise. It's a crisp, early October weekend, and business is slowing down as fall descends at the Sherlock Holmes Bookshop and Emporium and adjacent Mrs. Hudson's Tea Room. Wealthy philanthropist and prominent Sherlockian David Masterson has



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rented Suffolk Gardens  
American High  
House, where he plans  
School to entertain his friends  
Mathematics in a traditional English  
Examinations country house weekend.  
Answer American  
Invitational Jayne Wilson and  
Mathematics Gemma Doyle get to  
Examinations work preparing lavish  
Answer 1000-1000 meals and setting up  
Answer Lax New Sherlockian books and  
Mathematical props for entertainment.  
Library  
Meanwhile, police  
detective Ryan

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Ashburton has taken time away from his duties to assist in the kitchen. It quickly becomes apparent that David's guests don't like each other--or their host. Plus, some of them aren't even acquainted with the adventures of the Great Detective.

Before Gemma can ponder their relationships a poisoned

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dart sails through the window of the library, presenting Gemma Doyle with a three-book problem.

Forty-eight challenging problems from the oldest high school mathematics

competition in the world. This book is a continuation of Hungarian Problem Book III and takes the

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contest from 1944  
American High  
through to 1963. This  
book is intended for  
beginners, although the  
experienced student will  
find much here.  
A unique collection of  
competition problems  
from over twenty major  
national and  
international  
mathematical  
competitions for high  
school students. Written

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for trainers and  
participants of contests  
of all levels up to the  
highest level, this will  
appeal to high school  
teachers conducting a  
mathematics club who  
need a range of simple  
to complex problems  
and to those instructors  
wishing to pose a  
"problem of the week",  
thus bringing a creative  
atmosphere into the

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classrooms. Equally, this is a must-have for individuals interested in solving difficult and challenging problems. Each chapter starts with typical examples illustrating the central concepts and is followed by a number of carefully selected problems and their solutions. Most of the solutions are complete, but some

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merely point to the road  
American High  
leading to the final  
School  
solution. In addition to  
Mathematics  
being a valuable  
Examinations  
resource of  
mathematical problems  
Answer American  
and solution strategies,  
Invitational  
this is the most  
Mathematics  
complete training book  
Examinations

A Problem Book in  
Algebra  
How to Start and Scale  
Network Effects

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A Cp-Theory Problem  
American High  
Book  
The USSR Olympiad  
Problem Book  
An Essay on the Pain of  
Playing Video Games  
The Contest Problem  
Book VIII  
This is the ninth  
book of problems  
and solutions from  
the American  
Mathematics



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American High  
(AMC) contests. It  
School  
chronicles 325  
Mathematics  
problems from the  
Examinations  
thirteen AMC 12  
Ahsme American  
contests given in the  
Invitational  
years between 2001  
Mathematics  
and 2007. The  
Examinations  
authors were the  
Aime 1983 1988  
joint directors of the  
Annali Lax New  
AMC 12 and the  
Mathematical  
AMC 10  
Library

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competitions during  
that period. The  
problems have all  
been edited to ensure  
that they conform to  
the current style of  
the AMC 12  
competitions.

Graphs and figures  
have been redrawn  
to make them more  
consistent in form

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and style, and the solutions to the problems have been both edited and supplemented. A problem index at the back of the book classifies the problems into subject areas of Algebra, Arithmetic, Complex Numbers,

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Counting, Functions,  
American High  
Geometry, Graphs,  
School  
Logarithms, Logic,  
Mathematics  
Number Theory,  
Examinations  
Polynomials,  
Ahsme American  
Probability,  
Invitational  
Sequences,  
Mathematics  
Statistics, and  
Examinations  
Trigonometry. A  
Aime 1983 1988  
problem that uses a  
Anneli Lax New  
combination of these  
Mathematical  
areas is listed

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multiple times. The problems on these contests are posed by members of the mathematical community in the hope that all secondary school students will have an opportunity to participate in problem-solving and

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an enriching  
American High  
School  
mathematical  
experience.

"In 2000, the  
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Association of  
America initiated the  
American  
Mathematics  
Competitions 10  
(AMC 10) for  
students up to grade

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10. The Contest

American High  
School  
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is the first collection  
of problems from  
that competition,  
covering the years  
2000-2007. J.

Douglas Faires and  
David Wells were  
the joint directors of  
the AMC 10 and  
AMC 12 during that

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period, and have assembled this book of problems and solutions." "There are 350 problems from the first 14 contests included in this collection. A Problem Index at the back of the book classifies the problems into the



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following major  
subject areas:

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Arithmetic,  
Sequences and  
Series, Triangle  
Geometry, Circle  
Geometry,  
Quadrilateral  
Geometry, Polygon  
Geometry,  
Coordinate

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Geometry, Solid  
American High  
Geometry, Counting,  
School  
Discrete Probability,  
Mathematics  
Statistics, Number  
Examinations  
Theory, and Logic.  
Ahsme American  
The major subject  
Invitational  
areas are then  
Mathematics  
broken down into  
Examinations  
subcategories for  
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ease of reference.  
Anneli Lax New  
The problems are  
Mathematical  
cross-referenced  
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when they represent  
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several subject  
School  
areas." --BOOK  
Mathematics  
JACKET.

Examinations  
This book features  
AHSME American  
challenging  
Invitational  
problems of classical  
Mathematics  
analysis that invite  
Examinations  
the reader to explore  
Aime 1983 1988  
a host of strategies  
Anneli Lax New  
and tools used for  
Mathematical  
solving problems of

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modern topics in real  
analysis. This  
volume offers an  
unusual collection of  
problems — many of  
them original —  
specializing in three  
topics of  
mathematical  
analysis: limits,  
series, and fractional  
part integrals. The

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work is divided into three parts, each containing a chapter dealing with a particular problem type as well as a very short section of hints to select problems. The first chapter collects problems on limits of special sequences

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and Riemann  
American High  
School  
Mathematics  
Examinations  
fractional part  
integrals with a  
special section called  
'Quickies' which  
contains problems  
that have had  
unexpected succinct  
solutions. The final

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chapter offers the reader an assortment of problems with a flavor towards the computational aspects of infinite series and special products, many of which are new to the literature. Each chapter contains a section of difficult

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problems which are  
American High  
motivated by other  
School  
problems in the  
Mathematics  
book. These 'Open  
Examinations  
Problems' may be  
Ahsme American  
considered research  
Invitational  
projects for students  
Mathematics  
who are studying  
Examinations  
advanced calculus,  
Aime 1983 1988  
and which are  
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intended to stimulate  
Mathematical  
creativity and the  
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discovery of new  
and original methods  
for proving known  
results and  
establishing new  
ones. This  
stimulating  
collection of  
problems is intended  
for undergraduate  
students with a  
strong background in

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analysis; graduate students in mathematics, physics, and engineering; researchers; and anyone who works on topics at the crossroad between pure and applied mathematics.

Moreover, the level

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of problems is appropriate for students involved in the Putnam Mathematics Examinations, other high level mathematical contests.

Amy is dying to buy the latest, greatest video game, but with only fifty-two cents

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in her piggy bank,  
she's out of luck. Or  
is she?

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American  
Invitational  
Wohascum County  
Mathematics  
Problem Book  
Examinations  
The Contest Problem  
Book II  
Aime 1983 1988  
Anneli Lax New  
Mathematical  
Library

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Linear Algebra  
American High  
School  
Problem Book

A Sherlock Holmes  
Mathematics  
Bookshop Mystery  
Examinations  
*The matter is  
presented in a  
manner which is  
well within capacity  
of undergraduate  
students to 1988  
understand. The  
book is divided into*

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*Problem Book V*  
ten chapters, each  
containing brief  
explanations of  
concepts and  
formulae relevant  
for the problem set  
that follows.

Moreover, the hints  
and solutions given  
for each question  
have very student-  
friendly features  
that will help

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*students in their  
efforts to study the  
subject  
independently.*

*This book consists  
only of author-  
created problems  
with author-  
prepared solutions  
(never published  
before) and it is  
intended as a  
teacher's manual of*

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mathematics, a self-  
study handbook for  
high-school  
students and  
mathematical  
competitors  
interested in AMC  
12 (American  
Mathematics  
Competitions). The  
book teaches  
problem solving  
strategies and aids



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to improve problem  
American High  
solving skills. The  
School  
book includes a list  
Mathematics  
of the most useful  
Examinations  
theorems and  
Algebra  
formulas for AMC  
12, it also includes  
Mathematics  
14 sets of author-  
Examinations  
created AMC 12  
Algebra  
type practice tests  
1985-1988  
(350 author-created  
Anneli Lax New  
AMC 12 type  
Mathematical  
problems and their  
Library

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*detailed solutions*).  
National Math  
School  
Competition  
Preparation  
(NMCP) program of  
RSM used part of  
these 14 sets of  
practice tests to  
train students for  
AMC 12, as a result  
75 percent of  
NMCP high school  
students qualified

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for AIME. The  
authors provide  
both a list of  
answers for all 14  
sets of author-  
created AMC 12  
type practice tests  
and author-  
prepared solutions  
for each problem.  
About the authors:  
Hayk Sedrakyan is  
an IMO medal

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winner,  
American High  
School  
mathematical  
Olympiad coach in  
greater Boston  
area,  
Massachusetts,  
USA. He is the  
Dean of math  
competition  
preparation  
department at  
RSM. He has been

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*a Professor of  
American High  
School  
Paris and has a  
PhD in  
mathematics  
(optimal control  
and game theory)  
from the UPMC -  
Sorbonne  
University, Paris,  
France. Hayk is a  
Doctor of  
mathematical*

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*sciences in USA,  
France, Armenia  
and holds three  
master's degrees in  
mathematics from  
institutions in  
Germany, Austria,  
Armenia and has  
spent a small part  
of his PhD studies  
in Italy. Hayk  
Sedrakyan has  
worked as a*

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*scientific*  
*researcher for the*  
*School*  
*European*  
*Commission (sadco*  
*project) and has*  
*been one of the*  
*Team Leaders at*  
*Harvard-MIT*  
*Mathematics*  
*Tournament*  
*(HMMT). He took*  
*part in the*  
*International*

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*Mathematical  
Olympiads (IMO) in  
United Kingdom,  
Japan and Greece.  
Hayk has been  
elected as the  
President of the  
students' general  
assembly and a  
member of the  
management board  
of Cite  
Internationale*



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Universitaire de  
Paris (10,000  
students, 162  
different  
nationalities) and  
the same year they  
were nominated for  
the Nobel Peace  
Prize. Nairi  
Sedrakyan is  
involved in national  
and international  
mathematical

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*Olympiads having  
been the President  
of Armenian  
Mathematics*

*Olympiads and a  
member of the IMO  
problem selection  
committee. He is  
the author of the  
most difficult  
problem ever  
proposed in the  
history of the*

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*International  
American High  
School  
Olympiad (IMO),  
5th problem of 37th  
IMO. This problem  
is considered to be  
the hardest  
problems ever in  
the IMO because  
none of the  
members of the  
strongest teams  
(national Olympic*

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*teams of China,  
USA, Russia)*  
succeeded to solve  
it correctly and  
because national  
Olympic team of  
China (the  
strongest team in  
the IMO) obtained  
a cumulative result  
equal to 0 points  
and was ranked 6th  
in the final ranking

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*of the countries  
instead of the usual  
1st or 2nd place.  
The British 2014  
film X+Y, released  
in the USA as A  
Brilliant Young  
Mind, inspired by  
the film Beautiful  
Young Minds  
(focuses on an  
English  
mathematical*

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genius chosen to  
represent the  
United Kingdom at  
the IMO) also  
states that this  
problem is the  
hardest problem  
ever proposed in  
the history of the  
IMO (minutes  
9:40-10:30). Nairi  
Sedrakyan's  
students (including

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his son Hayk  
Sedrakyan) have  
received 20 medals  
in the International  
Mathematical  
Olympiad (IMO),  
including Gold and  
Silver medals.  
This is the ninth  
book of problems  
and solutions from  
the American  
Mathematics

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Competitions  
(AMC) contests.

*A young girl wins a  
pony in a contest  
and throws her  
entire suburban  
neighborhood into  
an uproar.*

*Problem-Solving  
Strategies*

*With Hints and  
Solutions*

*American High*



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*School  
American High  
School  
Mathematics  
Examinations and  
American  
Invitational  
Mathematics  
Examinations,  
1983-1988  
American  
Mathematics  
Contests 1983-1988  
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Mathematical  
Library*  
Hungarian Problem  
Page 97/158

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*Book IV*  
American High

School  
The Problem Book in  
Mathematics  
Quantum Field  
Theory contains about  
200 problems with  
solutions or hints that  
help students to  
improve their  
understanding and  
develop skills  
necessary for  
pursuing the subject.  
It deals with the Klein-

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Gordon and Dirac equations, classical field theory, canonical quantization of scalar, Dirac and electromagnetic fields, the processes in the lowest order of perturbation theory, renormalization and regularization. The solutions are presented in a systematic and

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complete manner.

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and the level of  
exposition make the  
book appropriate for  
graduate and  
undergraduate  
students in physics,  
as well as for  
teachers and  
researchers.

Classic Text Series is  
considered to one of  
the best categories

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from Arihant, it is a compilation of some of the amazing works done by the great teachers, authors and writers across the globe in the field of mathematics & science. "The Contest Problems - Book - I" as the name suggests this book has been provided with ample number of problems,

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which is constituted  
by "Charles T.

Salkind" a unique  
mathematician. This  
problem collection is  
designed by  
mathematics club for  
high school teachers,  
students and other  
interested Individuals.

The problems  
presented in the book  
would benefit the  
students by providing

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the challenges. The reader might try themselves on a whole test or on a part of a test with or without time limitations. Answers are provided in the book if a student get stuck in the problem, for the conceptual understanding complete solutions are also provided at

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the end according to  
the series of the  
examination paper i.e.  
from 1950 to 1960  
that help students to  
understand things in  
much different and in  
an innovative way.  
The amazing thing  
about this book that  
while studying the  
solutions, even the  
successful problem  
solver may find



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sidelights that they had overlooked, they may find more elegant and different ways of solving the problems that will lead him into deeper levels of mathematics. This book builds special interest for the mathematics that lead them into new problem solving methods. TABLE OF

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Problems: (1950

Examination - 1960

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Solutions: (1950

Solutions - 1960

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Classification of

Problems.

Linear Algebra 1988

Problem Book can be

either the main course

or the dessert for

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someone who needs  
linear algebra and  
today that means  
every user of  
mathematics. It can  
be used as the basis  
of either an official  
course or a program  
of private study. If  
used as a course, the  
book can stand by  
itself, or if so desired,  
it can be stirred in  
with a standard linear

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algebra course as the seasoning that provides the interest, the challenge, and the motivation that is needed by experienced scholars as much as by beginning students.

The best way to learn is to do, and the purpose of this book is to get the reader to DO linear algebra.

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The approach is Socratic: first ask a question, then give a hint (if necessary), then, finally, for security and completeness, provide the detailed answer.

Any high school student preparing for the American Mathematics Competitions should

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get their hands on a copy of this book! A major aspect of mathematical training and its benefit to society is the ability to use logic to solve problems. The American Mathematics Examinations Competitions (AMC) have been given for more than fifty years to millions of high

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school students. This  
American High  
book considers the  
Salon  
basic ideas behind  
Mathematics  
the solutions to the  
Examinations  
majority of these  
Annie American  
problems, and  
Invitational  
presents examples  
Mathematics  
and exercises from  
Examinations  
past exams to  
Annie  
illustrate the  
1983/1988  
concepts. Anyone  
Annex Exa New  
taking the AMC  
Mathematical  
exams or helping  
Library  
students prepare for

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them will find many useful ideas here. But people generally interested in logical problem solving should also find the problems and their solutions interesting.

This book will promote interest in mathematics by providing students with the tools to attack problems that occur



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on mathematical  
problem-solving  
exams, and  
specifically to level  
the playing field for  
those who do not  
have access to the  
enrichment programs  
that are common at  
the top academic high  
schools. The book  
can be used either for  
self-study or to give  
people who want to

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help students prepare  
for mathematics  
exams easy access to  
topic-oriented material  
and samples of  
problems based on  
that material. This is  
useful for teachers  
who want to hold  
special sessions for  
students, but it is  
equally valuable for  
parents who have  
children with

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mathematical interest  
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and ability. As  
School  
students' problem  
Solving  
abilities  
improve, they will be  
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able to comprehend  
Anisne American  
more difficult  
Invitational  
concepts requiring  
Mathematics  
greater mathematical  
Examinations  
ingenuity. They will be  
Annex 103/100  
taking their first steps  
Annex Exam New  
towards becoming  
Mathematical  
math Olympians!  
The Pony Problem

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Annual High School  
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*A startup executive and  
investor draws on  
expertise developed at  
the premier venture  
capital firm Andreessen  
Horowitz and as an*

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*executive at Uber to  
address how tech's most  
successful products  
have solved the dreaded  
"cold start  
problem"—by  
leveraging network  
effects to launch and  
scale toward billions of  
users. Although  
software has become  
easier to build,  
launching and scaling  
new products and*

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*services remains  
difficult. Startups face  
daunting challenges  
entering the technology  
ecosystem, including  
stiff competition,  
copycats, and  
ineffective marketing  
channels. Teams  
launching new products  
must consider the  
advantages of “the  
network effect,” where  
a product or service’s*

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*value increases as more users engage with it.*

*Apple, Google, Microsoft, and other tech giants utilize network effects, and most tech products incorporate them, whether they're messaging apps, workplace collaboration tools, or marketplaces.*

*Network effects provide a path for fledgling*

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*products to break  
through, attracting new  
users through viral  
growth and word of  
mouth. Yet most  
entrepreneurs lack the  
vocabulary and context  
to describe them—much  
less understand the  
fundamental principles  
that drive the effect.  
What exactly are  
network effects? How  
do teams create and*



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*Problem Book V  
American High  
School  
Mathematics  
Examinations*  
***build them into their  
products? How do  
products compete in a  
market where every  
player has them?***

***Andrew Chen draws on  
his experience and on  
interviews with the  
CEOs and founding  
teams of LinkedIn,  
Twitch, Zoom, Dropbox,  
Tinder, Uber, Airbnb,  
and Pinterest to offer  
unique insights in***

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*answering these  
questions. Chen also  
provides practical  
frameworks and  
principles that can be  
applied across products  
and industries. The  
Cold Start Problem  
reveals what makes  
winning networks  
thrive, why some  
startups fail to  
successfully scale, and,  
most crucially, why*

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*products that create and  
compete using the  
network effect are  
vitally important today.  
The 138 trickiest math  
problems to appear in  
the New Mexico  
Mathematics Contest  
over the last decades  
selected by their  
original creator.*  
From the Preface:  
*"This book was written  
for the active reader.*

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*The first part consists of problems, frequently preceded by definitions and motivation, and sometimes followed by corollaries and historical remarks...*

*The second part, a very short one, consists of hints... The third part, the longest, consists of solutions: proofs, answers, or constructions, depending*

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*on the nature of the  
problem.... This is not  
an introduction to  
Hilbert space theory.*

*Some knowledge 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."*

*This is the seventh book  
of problems and*

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*solutions from the  
American High  
School  
Competitions. Contest  
Problem Book VII  
chronicles 275 problems  
from the American  
Mathematics Contests  
(AMC 12 and AMC 10  
for the years 1995  
through 2000, including  
the 50th Anniversary  
AHSME issued in  
1999). Twenty-three  
additional problems*

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*with solutions are  
included. A Problem  
Index classifies the 275  
problems in to the  
following subject areas:  
Algebra, Complex  
Numbers, Discrete  
Mathematics (including  
Counting Problems),  
Logic, and Discrete  
Probability, Geometry  
(including Three  
Dimensional Geometry),  
Number Theory*

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*(including Divisibility,  
Representation, and  
Modular Arithmetic),  
Statistics, and  
Trigonometry. For over  
50 years many excellent  
exams have been  
prepared by individuals  
throughout our  
mathematical  
community in the hope  
that all secondary  
school students will  
have an opportunity to*



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*participate in these  
problem solving and  
enriching mathematics  
experiences. The  
American Mathematics  
Contests are intended  
for everyone from the  
average student at a  
typical school who  
enjoys mathematics to  
the very best student at  
the most special school.  
First Steps for Math  
Olympians: Using the*

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Problem Book in  
Quantum Field Theory  
The Stanford  
Mathematics Problem  
Book  
Limits, Series, and  
Fractional Part  
Integrals  
AMC 12 Preparation  
Book  
The Cold Start Problem  
The theory of*

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*function spaces  
endowed with the  
topology of point  
wise convergence,  
or  $C_p$ -theory, exists  
at the intersection of  
three important  
areas of  
mathematics:  
topological algebra,  
functional analysis,  
and general  
topology.  $C_p$ -theory*

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*has an important  
role in the  
classification and  
unification of  
heterogeneous  
results from each of  
these areas of  
research. Through  
over 500 carefully  
selected problems  
and exercises, this  
volume provides a  
self-contained*

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*introduction to  $C_p$ -  
theory and general  
topology. By  
systematically  
introducing each of  
the major topics in  
 $C_p$ -theory, this  
volume is designed  
to bring a dedicated  
reader from basic  
topological  
principles to the  
frontiers of modern*

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*research. Key features include: - A unique problem-based introduction to the theory of function spaces.*

*Detailed solutions to each of the presented problems and exercises. - A comprehensive bibliography reflecting the state-*

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*of-the-art in modern  
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Mathematics  
Examinations  
AIME 1983-1988  
Anneli Lax New  
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*Cp-theory. -  
Numerous open  
problems and  
directions for further  
research. This  
volume can be used  
as a textbook for  
courses in both Cp-  
theory and general  
topology as well as  
a reference guide for  
specialists studying*

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*Cp-theory and related topics. This book also provides numerous topics for PhD specialization as well as a large variety of material suitable for graduate research.*

*Over 300 challenging problems in algebra, arithmetic,*



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*elementary number  
theory and  
trigonometry,  
selected from  
Mathematical  
Olympiads held at  
Moscow University.  
Only high school  
math needed.  
Includes complete  
solutions. Features  
27 black-and-white  
illustrations. 1962*

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*edition.*

*Based on Stanford  
University's well-  
known competitive  
exam, this excellent  
mathematics  
workbook offers  
students at both high  
school and college  
levels a complete  
set of problems,  
hints, and solutions.  
1974 edition.*

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*Dream Hoarders*  
sparked a national  
conversation on the  
dangerous  
separation between  
the upper middle  
class and everyone  
else. Now in  
paperback and  
newly updated for  
the age of Trump,  
Brookings Institution  
senior fellow

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*Richard Reeves is continuing to challenge the class system in America. In America, everyone knows that the top 1 percent are the villains. The rest of us, the 99 percent—we are the good guys. Not so, argues Reeves. The real class divide is*

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*not between the  
upper class and the  
upper middle class:  
it is between the  
upper middle class  
and everyone else.*

*The separation of  
the upper middle  
class from everyone  
else is both  
economic and  
social, and the  
practice of*

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"opportunity  
hoarding"—gaining  
exclusive access to  
scarce  
resources—is  
especially prevalent  
among parents who  
want to perpetuate  
privilege to the  
benefit of their  
children. While  
many families  
believe this is just

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Algebra  
iv  
Mathematics  
Examinations  
1985-1988  
Annex Lax New  
Mathematical  
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*good parenting, it is actually hurting others by reducing their chances of securing these opportunities. There is a glass floor created for each affluent child helped by his or her wealthy, stable family. That glass floor is a glass*

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*Problem Book V  
American High  
School Hoarders,  
Reeves explores the  
creation and  
perpetuation of  
opportunity  
hoarding, and what  
should be done to  
stop it, including  
controversial  
solutions such as  
ending legacy*



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*admissions to school. He offers specific steps toward reducing inequality and asks the upper middle class to pay for it. Convinced of their merit, members of the upper middle class believes they are entitled to those tax breaks and*

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*hoarded opportunities. After all, they aren't the 1 percent. The national obsession with the super rich allows the upper middle class to convince themselves that they are just like the rest of America. In Dream Hoarders,*

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*Reeves argues that  
in many ways, they  
are worse, and that  
changes in policy  
and social  
conscience are the  
only way to fix the  
broken system.*  
*Berkeley Problems  
in Mathematics  
Selected Problems  
and Theorems of  
Elementary*

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*Mathematics*  
*A Problem Book in*  
*School*  
*Real Analysis*  
*The Contest*  
*Problem Book V*  
*Convex Optimization*  
*New Mexico*  
*Mathematics*  
*Contest Problem*  
*Book*  
1983 1988  
According to the  
Annell Lax New  
great  
mathematician  
Library

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*Paul Erdős, God  
maintains*

*perfect*

*mathematical*

*proofs in The*

*Book. This book  
presents the*

*authors*

*candidates for*

*such "perfect*

*proofs," those*

*which contain*

*brilliant ideas,*

*clever*

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*connections, and  
wonderful  
observations,  
bringing new  
insight and  
surprising  
perspectives to  
problems from  
number theory,  
geometry,  
analysis, 1988  
combinatorics,  
and graph  
theory. As a*

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*result, this book will be fun reading for anyone with an interest in mathematics. An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.*

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The dramatic  
human story of  
an epic  
scientific quest  
and of one man's  
forty-year  
obsession to  
find a solution  
to the thorniest  
scientific  
dilemma of the  
day--"the  
longitude  
problem." Anyone



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*alive in the  
eighteenth  
century would  
have known that  
"the longitude  
problem" was the  
thorniest  
scientific  
dilemma of the  
day—and had been  
for centuries.*

*Lacking the  
ability to  
measure their*

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*longitude,*

*sailors*

*throughout the*

*great ages of*

*exploration had*

*been literally*

*lost at sea as*

*soon as they*

*lost sight of*

*land. Thousands*

*of lives and the*

*increasing*

*fortunes of*

*nations hung on*

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*a resolution.*

*One man, John*

*Harrison, in*

*complete*

*opposition to*

*the scientific*

*community, dared*

*to imagine a*

*mechanical*

*solution—a clock*

*that would keep*

*precise time at*

*sea, something*

*no clock had*

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*ever been able  
to do on land.*

*Longitude is the  
dramatic human*

*story of an epic  
scientific quest  
and of*

*Harrison's forty-  
year obsession*

*with building*

*his perfect*

*timekeeper,*

*known today as  
the chronometer.*

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*Full of heroism  
and chicanery,  
it is also a  
fascinating  
brief history of  
astronomy,  
navigation, and  
clockmaking, and  
opens a new  
window on our  
world.*

*Problems in  
Mathematical  
Analysis*

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*Topological and  
Function Spaces*

*No Money? No  
Problem!*

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