

Great Mathematics Books of the Twentieth Century

Fragment of ancient Greek text on papyrus, showing several lines of script. The text is partially obscured by damage and is difficult to decipher. Legible fragments include characters such as Δ, ε, and various combinations of letters.

Fragment of ancient Greek text on papyrus, showing several lines of script. The text is partially obscured by damage and is difficult to decipher. Legible fragments include characters such as ε, δ, π, α, and various combinations of letters.



These two pages are from a papyrus manuscript dated in early second century A.D. They contain tables of fractions with prime denominators, followed by arithmetical problems concerning conversions between silver and copper money and between wheat standards, as well as calculations of carriage charges and of interests. They are in the special collection of University of Michigan.

Books also by Lizhen Ji

Compactifications of Symmetric Spaces

by Yves Guivarc'h, Lizhen Ji, and John C. Taylor, Birkhäuser, 1998

Compactifications of Symmetric and Locally Symmetric Spaces

by Armand Borel and Lizhen Ji, Birkhäuser, 2005

Lie Groups and Automorphic Forms

by Lizhen Ji, Jian-Shu Li, H.W. Xu, and Shing-Tung Yau (Ed.), AMS & IP, 2006

Proceedings of The 4th International Congress of Chinese Mathematicians

by Lizhen Ji, Kefeng Liu, Lo Yang, and Shing-Tung Yau (Ed.), HEP & IP, 2007

Arithmetic Groups and Their Generalizations: what, why, how?

by Lizhen Ji, AMS & IP, 2008

Geometry, Analysis and Topology of Discrete Groups

by Lizhen Ji, Kefeng Liu, Lo Yang, and Shing-Tung Yau (Ed.), HEP & IP, 2008

Handbook of Geometric Analysis Vol. I

by Lizhen Ji, Peter Li, Richard Schoen, and Leon Simon (Ed.), HEP & IP, 2008

Automorphic Forms and the Langlands Program

by Lizhen Ji, Kefeng Liu, and Shing-Tung Yau (Ed.), HEP & IP, 2009

Cohomology of Groups and Algebraic K-theory

by Lizhen Ji, Kefeng Liu, and Shing-Tung Yau (Ed.), HEP & IP, 2009

Handbook of Geometric Analysis Vol. II, III

by Lizhen Ji, Peter Li, Richard Schoen, and Leon Simon (Ed.), HEP & IP, 2010

Transformation Groups and Moduli Spaces of Curves

by Lizhen Ji and Shing-Tung Yau (Ed.), HEP & IP, 2010

Geometry and Analysis Vol. I, II

by Lizhen Ji (Ed.), HEP & IP, 2010

Fourth International Congress of Chinese Mathematicians

by Lizhen Ji, Kefeng Liu, Lo Yang, and Shing-Tung Yau (Ed.), AMS & IP, 2010

Geometry of Riemann Surfaces and Their Moduli Spaces

by Lizhen Ji, Scott A. Wolpert, and Shing-Tung Yau (Ed.), AMS & IP, 2010

Frontiers of Mathematical Sciences

by Huai-Dong Cao, Shiu-Yuen Cheng, Binglin Gu, Lizhen Ji, and Shing-Tung Yau (Ed.), IP, 2011

Fifth International Congress of Chinese Mathematicians

by Lizhen Ji, Yat Sun Poon, Lo Yang, and Shing-Tung Yau (Ed.), AMS & IP, 2012

Open Problems and Surveys of Contemporary Math

by Lizhen Ji, Yat Sun Poon, and Shing-Tung Yau (Ed.), HEP & IP, 2013

Great Mathematics Books of the Twentieth Century

A Personal Journey

Lizhen Ji

Department of Mathematics
University of Michigan



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by Lizhen Ji (Department of Mathematics, University of Michigan)

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The reading of all good books is like a conversation with the finest men of past centuries.

— René Descartes

There is no friend as loyal as a book.

— Ernest Hemingway

If we encounter a man of rare intellect, we should ask him what books he reads.

— Ralph Waldo Emerson

A room without books is like a body without a soul.

— Marcus Tullius Cicero

A house without books is like a room without windows.

— Horace Mann

I guess there are never enough books.

— John Steinbeck

The odd thing about people who had many books was how they always wanted more.

— Patricia A. McKillip

I have always imagined that Paradise will be a kind of library.

— Jorge Luis Borges

My best friend is a person who will give me a book I have not read.

— Abraham Lincoln

I cannot live without books.

— Thomas Jefferson

There are two motives for reading a book: one, that you enjoy it: the other, that you can boast about it.

— Bertrand Russell

書富如入海，百貨皆有。人之精力，不能兼收盡取，
但得春所欲求者爾。故願學者每次作一意求之。

— 蘇軾

發奮識遍天下字，立志讀盡人間書。

— 蘇軾

路漫漫其修道遠，吾將上下而求索。

— 屈原

飯可以一日不吃，覺可以一日不睡，書不可以一日不讀。

— 毛澤東

好讀書，不求甚解；每有會意，便欣然忘食。

— 陶淵明

This is a very impressive job for both educators and researchers in mathematics. It collects basically all the important nontechnical books written by great mathematicians. The author also gave insightful comments on these books. This is especially important for those who want to get a global view about mathematics. The author writes with humors and so the book is not dry to read. I am amazed by the author's energy in preparing this book.

Shing-Tung Yau

Fields Medalist, Wolf Prize Winner, Harvard University

海量的數學書，哪些值得我們認真讀，哪些讀後讓我們對數學有更好的認識，這些對門外漢、學生、年輕的學者和專家都是非常需要解決的問題。季理真教授的新作《二十世紀偉大的數學書——個人之旅》(Great Mathematics Books of the Twentieth Century: A Personal Journey) 在這個問題上為我們帶來了極大的便利。本書比較全面收列了二十世紀以來最有影響的數學書並恰當地加以簡評和引述其他評論。本書收列的書目範圍之廣，數量之大令人吃驚，這需要作者廣闊的視野、艱辛的工作，並花大量的時間請教很多不同方向的專家。季理真教授完成了一項很有意義的工作。我相信大家都會歡迎這本書並能從中獲益。

席南華

中國科學院院士，中國科學院數學與系統科學研究院

This book provides an excellent and comprehensive map for your mathematical journey. It will guide you to the right direction and path for advanced studies in almost all mathematical fields.

Lo Yang

Member of Chinese Academy of Sciences (CAS)

阿貝爾有句名言：“向大師學習！”本書正是通往大師作品的極佳引導，相信會使廣大數學工作者，無論是初始的學生還是成熟的學者，都受益匪淺。

張偉平

中國科學院院士，南開大學陳省身數學研究所

Unlike other sciences, old mathematical literature has a life of its own because it records not only the background, but also so much of the detailed technical knowledge, for the mathematics of today. This remarkable book is the first one to attempt to analyse the vast literature arising from 20th century mathematics. It lists and comments on a selection of the most influential books written during this time in all of the major fields of mathematics.

John Henry Coates

Fellow of the Royal Society, Senior Whitehead Prize Winner, Cambridge University

*This book gives a survey of the influential books in mathematics, touching upon almost all fields of mathematics. This is a very impressive piece of work. It reminds me of the book: *A Panorama of Pure Mathematics*, written by Dieudonne, except that it is of more practical value since it tells readers where to look further.*

Unlike other scientific disciplines that give introductory courses such as “General Physics”, “General Chemistry” or “Introduction to Molecular Biology”, mathematics does not offer such a course. Consequently, it is very difficult for beginning mathematics students to get an overview of mathematics, what each subject is about, and how different subjects are put together. Books like this one is of great value for filling in that gap.

Weinan E

Member of Chinese Academy of Sciences (CAS), Peking University

An unusual idea: to write a catalog of the math books you love and/or respect. Anyone’s personal list of “great” books is bound to be idiosyncratic but can also be a useful complement for students to other entry points into the world of scholarly books.

David Mumford

Fields Medalist, Shaw Prize Winner, Brown University

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