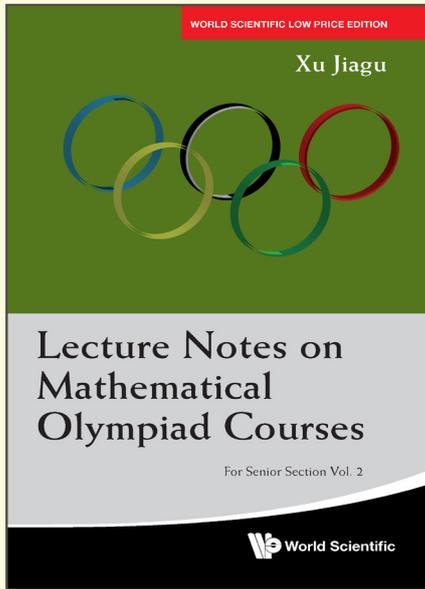


# Lecture Notes on Mathematical Olympiad Courses

## For Senior Section, Volume 2



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ISBN	9798886130478
Extent	296pp
Binding	Paperback
Year	2024
Price	Rs. 895

### ABOUT THE BOOK

Olympiad mathematics is not a collection of techniques of solving mathematical problems but a system for advancing mathematical education.

This book is based on the lecture notes of the mathematical Olympiad training courses conducted by the author in Singapore. Its scope and depth not only covers and beyond the usual syllabus, but introduces a variety of concepts and methods in modern mathematics as well.

In each lecture, the concepts, theories and methods are taken as the core. The examples serve to explain and enrich their intentions and to indicate their applications. Besides, appropriate number of test questions is available for the readers' practice and testing purpose. Their detailed solutions are also conveniently provided.

The examples are not very complicated so readers can easily understand. There are many real competition questions included which students can use to verify their abilities. These test questions originate from many countries all over the world.

This book will serve as a useful textbook of mathematical Olympiad courses, a self-study lecture notes for students, or as a reference book for related teachers and researchers.

### READERSHIP

Mathematics students, school teachers, college lecturers, university professors; mathematics enthusiasts.

### CONTENTS

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- Recursive Sequences

- Summation of Various Sequences
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