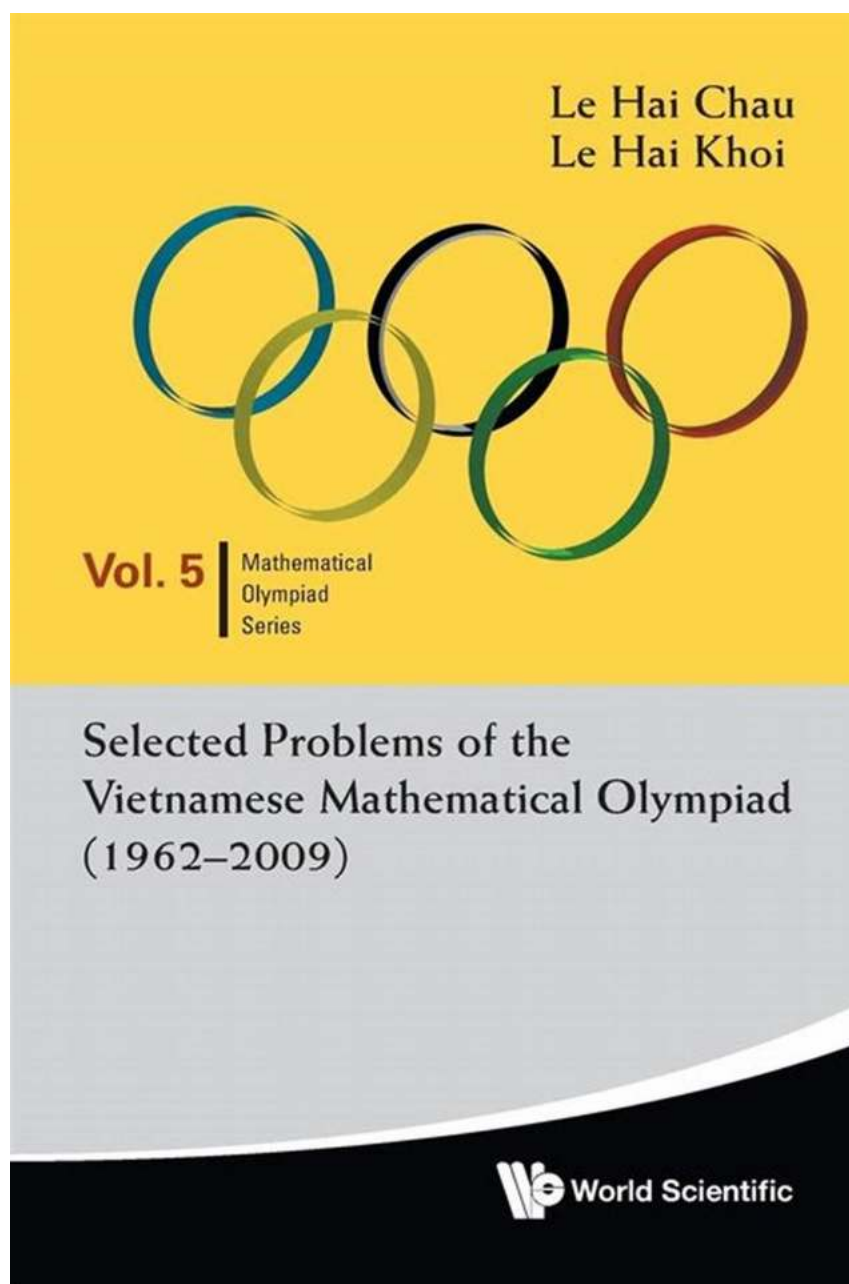


# Discover the Challenging and Inspiring Problems of the Vietnamese Mathematical Olympiad from 1962 to 2009

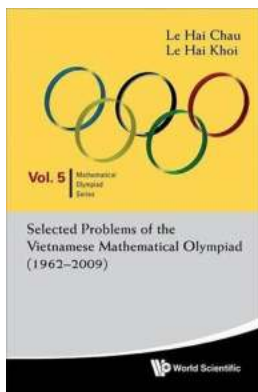


**The Vietnamese Mathematical Olympiad: A Journey of Mathematical Excellence**

Since its inception in 1962, the Vietnamese Mathematical Olympiad has been a platform for talented students to showcase their problem-solving abilities and mathematical prowess. This prestigious competition has not only challenged participants with intriguing mathematical problems but has also fostered a culture of excellence in mathematics education in Vietnam.

## The Evolution of the Olympiad: From Local Competition to International Success

Over the years, the Vietnamese Mathematical Olympiad has grown in popularity and prestige, attracting participants from various provinces and schools across the country. Starting as a local competition, it has evolved to become an internationally recognized event, with Vietnam consistently achieving remarkable results in international mathematical competitions.



### Selected Problems Of The Vietnamese Mathematical Olympiad (1962-2009) (Mathematical Olympiad Series Book 5)

by Hai Chau Le (Illustrated Edition, Kindle Edition)

★★★★☆ 4.2 out of 5

Language : English

File size : 27679 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Screen Reader : Supported

Print length : 329 pages

X-Ray for textbooks : Enabled



## Overview of Selected Problems

Throughout the years, the Vietnamese Mathematical Olympiad has presented participants with a wide range of challenging problems that test their problem-solving skills and creativity. Let's explore some fascinating problems from different years:

### **1. Problem 1997/1:**

A beautifully constructed problem that involves combinatorics and number theory. It challenges participants to find the smallest positive integer  $n$  such that  $2^n - 1$  is divisible by 7.

### **2. Problem 1988/3:**

This geometry problem pushes participants to prove the existence of a triangle with the given conditions. It explores the concept of perpendicular bisectors and angles within a triangle.

### **3. Problem 2005/6:**

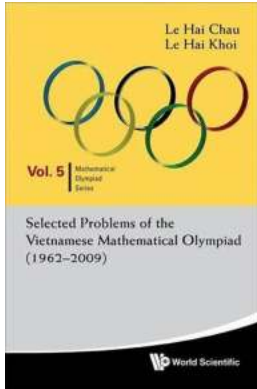
A complex algebraic problem that delves into the properties of polynomials and their roots. It requires participants to find all polynomials  $P(x)$  such that  $P(x^2 - 2) = [P(x)]^2 - 2$ .

## **Impact and Legacy**

The Vietnamese Mathematical Olympiad has not only nurtured the mathematical talents of students but has also produced generations of exceptional mathematicians. Many former participants have gone on to achieve success in academia and research, making significant contributions to various fields of mathematics.

The Selected Problems of the Vietnamese Mathematical Olympiad from 1962 to 2009 provide a glimpse into the remarkable challenges faced by participants and

the depth of mathematical talent in Vietnam. These problems have not only tested the problem-solving skills of young mathematicians but have also ignited a passion for mathematics and fostered a culture of excellence in the country.



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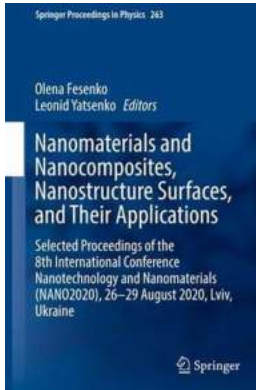
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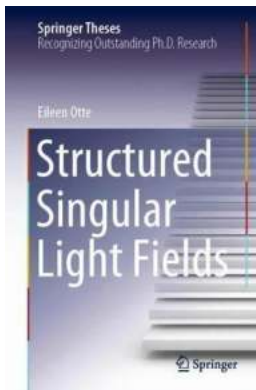


Vietnam has actively organized the National Competition in Mathematics and since 1962, the Vietnamese Mathematical Olympiad (VMO). On the global stage, Vietnam has also competed in the International Mathematical Olympiad (IMO) since 1974 and constantly emerged as one of the top ten. To inspire and further challenge readers, we have gathered in this book problems of various degrees of difficulty of the VMO from 1962 to 2009. The book is highly useful for high school students and teachers, coaches and instructors preparing for mathematical olympiads, as well as non-experts simply interested in having the edge over their opponents in mathematical competitions.



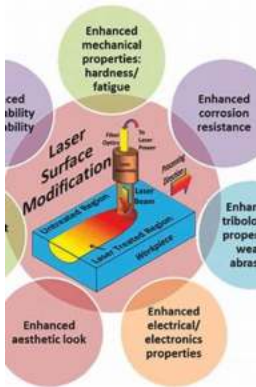
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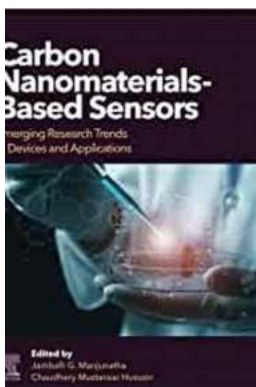
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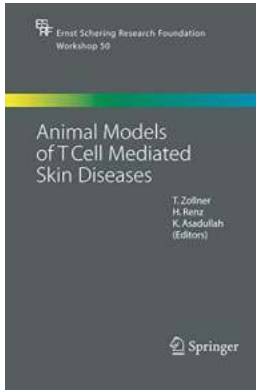
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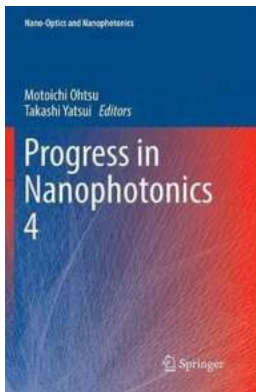
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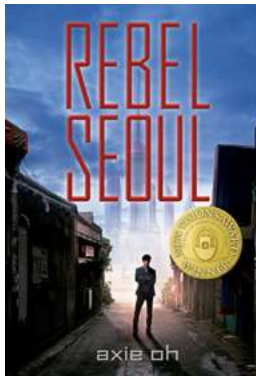
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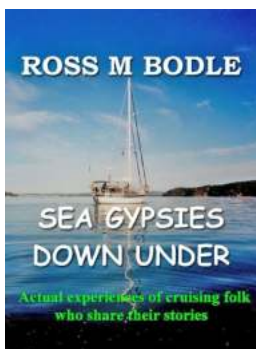
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