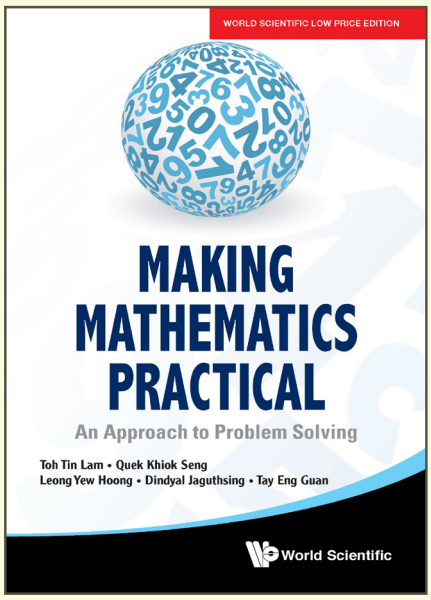
Making Mathematics Practical

An Approach to Problem Solving



By **Tin Lam Toh** (*Nanyang Technological University, Singapore*)
Khiok Seng Quek
(*Nanyang Technological University, Singapore*)
Yew Hoong Leong
(*Nanyang Technological University, Singapore*)
Jaguthsing Dindyal
(*Nanyang Technological University, Singapore*)
Eng Guan Tay
(*Nanyang Technological University, Singapore*)

ISBN	9798886130317
Extent	164pp
Binding	Paperback
Year	2024
Price	Rs. 1195

ABOUT THE BOOK

This book is the first of its kind, as it includes both mathematics content and pedagogy. It is a professional instructional manual on how mathematical problem solving curriculum can be implemented in the classrooms. The book develops from the theoretical work of Polya and Schoenfeld, and explicates how these can be translated to the actual implementation in schools. It represents the work of a group of researchers from the Singapore National Institute of Education, after experimenting with it in the Singapore school classrooms.

This book includes a set of scheme of work, lesson plans and a choice of mathematics problems that teachers can actually use in teaching problem solving. Certain pedagogical considerations are developed and suggested in this book. In addition, the book includes an assessment framework on how mathematical problem solving can be assessed.

READERSHIP

Mathematics educators who value the processes (in addition to the product) of mathematical problem solving.

CONTENTS

- Mathematical Problem Solving
- Scheme of Work and Assessment of the Mathematics Practical
- Detailed Lesson Plans
- Scaffolding Suggestions, Solutions to the Problems and Assessment Notes