



# Mathematics Masterclasses

Stretching the Imagination

Edited by Michael Sewell

# Mathematics Masterclasses

**Paul Andrews, Tim Rowland**



## **Mathematics Masterclasses:**

*Mathematics Masterclasses* Michael J. Sewell, 1997 This is a valuable resource of non syllabus material for mathematics in school education and science teachers at secondary school level teenagers and parents It contains written versions of Royal Institution masterclasses on a wide selection of topics in pure and applied mathematics and very little knowledge is assumed Topics include chaos theory meteorology storage limitations of computers population growth and decay and the mechanics of dinosaurs This book shows that mathematics can be fun

*Mathematics Masterclasses for Young People* Michael Sewell, 2017 This work consists of a series of masterclasses short sessions of mathematics beyond the standard school syllabus aimed at young mathematics who wish to stretch themselves The book provides teachers with a source of novel and interesting topics to supplement their standard material and as independent reading for pupils themselves The masterclasses in this book cover a huge range of topics including algebra geometry prime numbers fractions Pythagoras Fermat's Last Theorem and Fibonacci It serves as a fantastic gateway to the wonders of mathematics and a fine starter for fledgling mathematical minds Book jacket

**MasterClass in Mathematics Education** Paul Andrews, Tim Rowland, 2013-11-21 MasterClass in Mathematics Education provides accessible links between theory and practice and encourages readers to reflect on their own understanding of their teaching context Each chapter written by an internationally respected authority explores the key concepts within the selected area of the field drawing directly on published research to encourage readers to reflect on the content ideas and ongoing debates Using international case studies each chapter will encourage readers to think about ways that the teaching and learning of mathematics reflect different cultural traditions and expectations and enable them to evaluate effective strategies for their own contexts

**STEM Education for High-Ability Learners** Bronwyn MacFarlane, 2021-09-23 STEM Education for High Ability Learners Designing and Implementing Programming focuses on the rigorous articulation of quality STEM education programming to develop STEM talent among high ability and gifted learners The intent of this book is to provide a comprehensive resource for educators designing and implementing each of the supports within STEM education by providing a discussion of each critical component for inclusion in a planned coherent and high quality sequenced system This edited volume provides a cutting edge discussion of best practices for delivering STEM education by experts in the field The contributing authors provide a differentiated discussion and recommendations for the learning experiences of gifted students in STEM education programs

**The Mathematical Intelligencer**, 1985 *Strasbourg Master Class on Geometry* Athanase Papadopoulos, 2012 This book contains carefully revised and expanded versions of eight courses that were presented at the University of Strasbourg during two geometry master classes in 2008 and 2009 The aim of the master classes was to give fifth year students and Ph D students in mathematics the opportunity to learn new topics that lead directly to the current research in geometry and topology The courses were taught by leading experts The subjects treated include hyperbolic

geometry three manifold topology representation theory of fundamental groups of surfaces and of three manifolds dynamics on the hyperbolic plane with applications to number theory Riemann surfaces Teichmüller theory Lie groups and asymptotic geometry The text is aimed at graduate students and research mathematicians It can also be used as a reference book and as a textbook for short courses on geometry Mathematics Today ,2007 Mathematics Galore! Christopher J. Budd, Christopher J. Sangwin, 2001 This book is a series of self contained workshops in mathematics which aim to enthuse and inspire young people their parents and teachers with the joy and excitement of modern mathematics Written in an informal style each chapter describes how novel mathematical ideas relate directly to real life The chapters contain both a description of the mathematics and its applications together with problem sheets their solutions and ideas for further work project and field trips Topics include mazes folk dancing sundials magic castles codes number systems and slide rules This book will be accessible to young people from age thirteen upwards and yet contains material which should stretch the brightest students **The Australian Mathematics Teacher** ,1993 *Qualifications and Careers in Mathematics* ,1991 *The Mathematical Gazette* ,2006 **ICT and Primary Mathematics** Jenni Way, Toni Beardon, 2003 This title provides teachers with insights into how other teachers and researchers have discovered ways to create powerful learning experiences for children **Advances in Mathematical Sciences and Applications** ,1994 Mathematics Masterclasses ... ,1997 **Mathematical Reviews** ,1998 *Bulletin* Institute of Mathematics and Its Applications, 1995 *American Book Publishing Record* ,1995 **Forthcoming Books** Rose Arny, 2001-08 **Number Theory Revealed: A Masterclass** Andrew Granville, 2019-11-22 Number Theory Revealed A Masterclass acquaints enthusiastic students with the Queen of Mathematics The text offers a fresh take on congruences power residues quadratic residues primes and Diophantine equations and presents hot topics like cryptography factoring and primality testing Students are also introduced to beautiful enlightening questions like the structure of Pascal's triangle mod  $p$  and modern twists on traditional questions like the values represented by binary quadratic forms the anatomy of integers and elliptic curves This Masterclass edition contains many additional chapters and appendices not found in Number Theory Revealed An Introduction highlighting beautiful developments and inspiring other subjects in mathematics like algebra This allows instructors to tailor a course suited to their own and their students interests There are new yet accessible topics like the curvature of circles in a tiling of a circle by circles the latest discoveries on gaps between primes a new proof of Mordell's Theorem for congruent elliptic curves and a discussion of the abc conjecture including its proof for polynomials *Gazette - Australian Mathematical Society* Australian Mathematical Society, 1993

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