

Paulo Ribenboim

The Book of Prime Number Records

Second Edition



Springer-Verlag

The Of Prime Number Records Second Edition

Anthony Vazzana, David Garth



The Of Prime Number Records Second Edition:

The Book of Prime Number Records Paulo Ribenboim, 2012-12-06 This text originated as a lecture delivered November 20 1984 at Queen's University in the undergraduate colloquium series established to honor Professors A J Coleman and H W Ellis and to acknowledge their long lasting interest in the quality of teaching undergraduate students In another colloquium lecture my colleague Morris Orzech who had consulted the latest edition of the Guinness Book of Records reminded me very gently that the most innumerate people of the world are of a certain tribe in Mato Grosso Brazil They do not even have a word to express the number two or the concept of plurality Yes Morris I'm from Brazil but my book will contain numbers different from one He added that the most boring 800 page book is by two Japanese mathematicians whom I'll not name and consists of about 16 million digits of the number 11 I assure you Morris that in spite of the beauty of the apparent randomness of the decimal digits of 11 I'll be sure that my text will include also some words Acknowledgment The manuscript of this book was prepared on the word processor by Linda Nuttall I wish to express my appreciation for the great care speed and competence of her work

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Smarandache Function Journal, vol. 14/2004 Sabin Tabirca, Tatiana Tabirca, A collection of papers concerning Smarandache type functions numbers sequences integer algorithms paradoxes experimental geometries algebraic structures neutrosophic probability set and logic etc

Classical Theory of Algebraic Numbers Paulo Ribenboim, 2013-11-11 Gauss created the theory of binary quadratic forms in *Disquisitiones Arithmeticae* and Kummer invented ideals and the theory of cyclotomic fields in his attempt to prove Fermat's Last Theorem These were the starting points for the theory of algebraic numbers developed in the classical papers of Dedekind Dirichlet Eisenstein Hermite and many others This theory enriched with more recent contributions is of basic importance in the study of diophantine equations and arithmetic algebraic geometry including methods in cryptography This book has a clear and thorough exposition of the classical theory of

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A Course in Number Theory H. E. Rose, 1995 The second edition of this undergraduate textbook is now available in paperback Covering up to date as well as established material it is the only textbook which deals with all the main areas of number theory taught in the third year of a mathematics course Each chapter ends with a collection of problems and hints and sketch solutions are provided at the end of the book together with useful tables

Introduction to Number Theory Anthony Vazzana, David Garth, 2015-11-18 Introduction to Number Theory is a classroom tested student friendly text that covers a diverse array of number theory topics from the ancient Euclidean algorithm for finding the greatest common divisor of two integers to recent developments such as cryptography the theory of elliptic curves and the negative solution of Hilbert's tenth problem

CRC Concise Encyclopedia of Mathematics Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the demand for a new edition

Counting (2nd Edition) Khee-meng Koh, Eng Guan Tay, 2013-01-25 This book in its Second Edition is a useful attractive introduction to basic counting techniques for upper secondary to undergraduate students as well as teachers Younger students and lay people who appreciate mathematics not to mention avid puzzle solvers will also find the book interesting The various problems and applications here are good for building up proficiency in counting They are also useful for honing basic skills and techniques in general problem solving Many of the problems avoid routine and the diligent reader will often discover more than one way of solving a particular problem which is indeed an important awareness in problem solving The book thus helps to give students an early start to learning problem solving heuristics and thinking skills New chapters originally from a supplementary book have been added in this edition to substantially increase the coverage of counting techniques The new chapters include the Principle of Inclusion and Exclusion the Pigeonhole Principle Recurrence Relations the Stirling Numbers and the Catalan Numbers A number of new problems have also been added to this edition

The Penguin Dictionary of Curious and Interesting Numbers David Wells, 1997-09-04 Provides information on numbers and what makes particular ones noteworthy

The Enchantment of Numbers Eric L. F. Roettger, Hugh C. Williams, 2025-07-01 Inspired by the classic

Recreations in the Theory of Numbers The Queen of Mathematics Entertains by Albert H Beiler this book brings the excitement of recreational number theory into the 21st century through the lens of computational techniques While Beiler s work originally published in 1964 captivated readers with its breadth and charm some sections have become dated Here we re examine most of the key topics Beiler covered while introducing fresh updates and insights rooted in computational number theory The authors aim to present efficient computer algorithms to tackle various problems that arise in the theory of numbers providing a deeper and more modern perspective on these timeless puzzles Though we cannot rival Beiler s exuberant prose we hope our enduring fascination with these topics cultivated over decades of study and teaching will shine through and resonate with readers The book is structured into 21 chapters each focusing on different facets of number theory with which the authors have extensive expertise From ancient problems to contemporary computational challenges this volume will reignite the joy and wonder found in numbers while incorporating the power of modern computation Whether you re a seasoned mathematician or a curious learner this book promises a journey through the rich and playful landscape of number theory making both historical and new discoveries accessible to all

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