

Some Interesting Applications Of Number Theory

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Abstract: This chapter aims to introduce the reader to applications of Number theory in various disciplines including Cryptography, Statics and Chemistry that is the idea of encryption technique using RSA public key cryptography for finding the enciphering exponent and recovery element, balancing chemical equations using linear Diophantine equation with the help of matrices and Ladder problems in statics using Pythagorean triangles involving Jarasandha numbers.

Keywords: Cryptography, Encryption, RSA public Key, Balancing Chemical Equations, Jarasandha numbers, Statics, Ladder, Diophantine Equations, Pythagorean Triples.

1. INTRODUCTION:

Number theory is fascinating on the grounds that it has such a large number of open problems that seem accessible from the outside. Of course, open problems in number theory are open for a reason. Numbers, despite being simple, have an incredibly rich structure which we only understand to a limited degree. Number theory and its different subfields will keep on enthraling the brains of mathematicians for a very long time [1-5]. Apart from the polygonal numbers we have some more fascinating patterns of numbers namely Jarasandha numbers, Nasty numbers and Dhuruva numbers.

In our Indian epic Mahabharata, we come across a demoniac figure named 'JARASANDHA'. He had a boon that if he was split into two parts and thrown apart, the parts would rejoin and return to life. In fact, he was given life by the two halves of his body. In the field of Mathematics, we have numbers exhibiting the same property as Jarasandha. Consider a number of the form XC . This may split as two numbers X and C , if these numbers are added and squared we get the same number XC .

(i.e) $XC = (X + C)^2$

Also, if C is an n -digit number, then $(X + C)^2 = (10^n)(X) + C$

Number Theory And Applications

S.D. Adhikari, B. Ramakrishnan



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Advanced Number Theory with Applications Richard A. Mollin, 2009-08-26 Exploring one of the most dynamic areas of mathematics Advanced Number Theory with Applications covers a wide range of algebraic analytic combinatorial cryptographic and geometric aspects of number theory Written by a recognized leader in algebra and number theory the book includes a page reference for every citing in the bibliography and mo

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Number Theory and Applications S.D. Adhikari, B. Ramakrishnan, 2009-06-15 This collection of articles contains the proceedings of the two international conferences on Number Theory and Cryptography held at the Harish Chandra Research Institute In recent years the interest in number theory has increased due to its applications in areas like error correcting codes and cryptography These proceedings contain papers in various areas of number theory such as combinatorial algebraic analytic and transcendental aspects arithmetic algebraic geometry as well as graph theory and cryptography While some papers do contain new results several of the papers are expository articles that mention open questions which will be useful to young researchers

Elementary Number Theory with Applications Thomas Koshy, 2002 Elementary Number Theory focuses on number theory's role in the rapid development of art coding theory cryptology computer science and other necessities of modern life confirming that human ingenuity and creativity are boundless

Number Theory With Applications Wen-ching Li, 1996-02-16 Novel and important applications of number theory to graph theory and vice versa had been made in the past decade The two main tools used are based on the estimates of character sums and the estimates of the eigenvalues of Hecke operators both are rooted in the celebrated Weil conjectures settled by Deligne in 1973 The purpose of this book is to give from scratch a coherent and comprehensive introduction to the topics in number theory related to the central tools with the ultimate goal of presenting their applications This book includes many important subjects in number theory such as Weil conjectures Riemann Roch theorem L functions character sum estimates modular forms and representation theory

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New Frontiers in Number Theory and Applications Jordi Guàrdia, Nicușor Minculete, Diana Savin, Montserrat Vela, Abdelkader Zekhnini, 2024-05-27 This contributed volume presents recent advances as well as new directions in number theory and its applications Algebraic and analytic number theory are the main focus with chapters showing how these areas are rapidly evolving By gathering authors

from over seven countries readers will gain an international perspective on the current state of research as well as potential avenues to explore Specific topics covered include Algebraic Number Theory Elliptic curves and Cryptography Hopf Galois theory Analytic and elementary number theory and applications New Frontiers in Number Theory and Applications will appeal to researchers interested in gaining a global view of current research in number theory

Number Theory James Pommersheim, Tim Marks, Erica Flapan, 2010-02-15 Number Theory A Lively Introduction with Proofs Applications and Stories is a new book that provides a rigorous yet accessible introduction to elementary number theory along with relevant applications Readable discussions motivate new concepts and theorems before their formal definitions and statements are presented Many theorems are preceded by Numerical Proof Previews which are numerical examples that will help give students a concrete understanding of both the statements of the theorems and the ideas behind their proofs before the statement and proof are formalized in more abstract terms In addition many applications of number theory are explained in detail throughout the text including some that have rarely if ever appeared in textbooks A unique feature of the book is that every chapter includes a math myth a fictional story that introduces an important number theory topic in a friendly inviting manner Many of the exercise sets include in depth Explorations in which a series of exercises develop a topic that is related to the material in the section

Elementary Number Theory with Programming Marty Lewinter, Jeanine Meyer, 2015-05-06 A highly successful presentation of the fundamental concepts of number theory and computer programming Bridging an existing gap between mathematics and programming Elementary Number Theory with Programming provides a unique introduction to elementary number theory with fundamental coverage of computer programming Written by highly qualified experts in the fields of computer science and mathematics the book features accessible coverage for readers with various levels of experience and explores number theory in the context of programming without relying on advanced prerequisite knowledge and concepts in either area Elementary Number Theory with Programming features comprehensive coverage of the methodology and applications of the most well known theorems problems and concepts in number theory Using standard mathematical applications within the programming field the book presents modular arithmetic and prime decomposition which are the basis of the public private key system of cryptography In addition the book includes Numerous examples exercises and research challenges in each chapter to encourage readers to work through the discussed concepts and ideas Select solutions to the chapter exercises in an appendix Plentiful sample computer programs to aid comprehension of the presented material for readers who have either never done any programming or need to improve their existing skill set A related website with links to select exercises An Instructor s Solutions Manual available on a companion website Elementary Number Theory with Programming is a useful textbook for undergraduate and graduate level students majoring in mathematics or computer science as well as an excellent supplement for teachers and students who would like to better understand and appreciate number theory and computer programming The book is also an ideal reference for computer

scientists programmers and researchers interested in the mathematical applications of programming **Number Theory And Its Applications II** Hailong Li,Fuhuo Li,Nianliang Wang,Shigeru Kanemitsu,2017-11-29 The aim of the book is to give a smooth analytic continuation from basic subjects including linear algebra group theory Hilbert space theory etc to number theory With plenty of practical examples and worked out exercises and the scope ranging from these basic subjects made applicable to number theoretic settings to advanced number theory this book can then be read without tears It will be of immense help to the reader to acquire basic sound skills in number theory and its applications Number theory used to be described as the queen of mathematics that is there is no practical use However with the development of computers and the security of internet communications the importance of number theory has been exponentially increasing daily The raison d'être of the present book in this situation is that it is extremely reader friendly while keeping the rigor of serious mathematics and in depth analysis of practical applications to various subjects including control theory and pseudo random number generation The use of operators is prevailing rather abundantly in anticipation of applications to electrical engineering allowing the reader to master these skills without much difficulty It also delivers a very smooth bridging between elementary subjects including linear algebra and group theory and algebraic number theory for the reader to be well versed in an efficient and effortless way One of the main features of the book is that it gives several different approaches to the same topic helping the reader to gain deeper insight and comprehension Even just browsing through the materials would be beneficial to the reader

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