

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 With Applications

Sebastian Brünink



Number Theory With Applications:

Number Theory With Applications Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Number Theory With Applications**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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