

A Study on the Development and Application of Number Theory in Engineering Field

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Received: 19 Mar., 2021

Revised: 10 May, 2021

Accepted: 08 Jun., 2021

ABSTRACT

Number theory is probably one of the most important areas of Mathematics used in Computer Science and the basics behind all of modern Cryptography. Number theory is devoted originally to the study of integers. With the contributions made by Mathematicians in different ages to advancing the study of integers, the basics system of number theory has been gradually improved and thereby a complete and unified discipline has been formed. The paper mainly studies the development and application of number theory, aiming to review the history of discipline and explore its influence on production and our life and its applications in Engineering Field. The Number Theory, as such, was less applied in engineering compared to calculus geometry etc. The problem was that it could not be used directly in any application. But the number theory, combined with the computational power of modern computers, gives interesting solutions to real life problem. At present, number theory is widely and fully applied in many fields, such as Computing, Cryptography, Physics, Chemistry, Biology, Acoustics, Electronics, Communication, Graphics and even Musicology.

Keywords: Number theory, Cryptography, Computing, Musicology

Number theory, known as the queen of mathematics is the branch of mathematics that concerns about the positive integers 1, 2, 3, 4, 5 which are often called natural numbers and their appearing properties. From antiquity, these natural numbers classified as odd numbers, even numbers, square numbers, prime numbers, Fibonacci number, triangular number etc.

Due to the dense of unsolved problems, number theory plays a significant role in mathematics.

The recent classification of number theory, depending upon the tools used to address the related problems is shown as:

How to cite this article: Ghosal, G. (2021). A Study on the Development and Application of Number Theory in Engineering Field. IJASE, 9(01): 35-40.

Source of Support: None; **Conflict of Interest:** None

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