

Topic: Problems of Diophantine Equations with Applications

A Brief Editorial Statement for the Special Issue

Diophantine equations have wide applications in the various disciplines of science and engineering to determining the solutions of the problems of balancing the chemical reactions, word problems of real life, puzzles, and problems of astrology. Modular arithmetic method, the decomposition method, mathematical induction method, Fermat's infinite descent method, Catalan's conjecture method, and parametric method are the frequently used methods to solve these equations. This special issue will focus on the problems of Diophantine equations with applications.

Focus and Scope

- Linear Diophantine Equations
- Quadratic Diophantine Equations
- Exponential Diophantine Equations
- Polynomial Diophantine Equations
- Non-linear Diophantine Equations
- The Mordell Equation
- The Fermat Equation
- The Catalan Equation
- The Pell Equation
- The Thue Equation
- Topics Related to any other Development in Diophantine Equations

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