

# Disquisitiones Arithmeticae

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carl friedrich gauss s textbook *disquisitiones arithmeticae* published in 1801 latin remains to this day a true masterpiece of mathematical examination

this book discusses the application of quantum mechanics to computing it explains the fundamental concepts of quantum mechanics and then goes on to discuss various elements of mathematics required for quantum computing quantum cryptography waves and fourier analysis measuring quantum systems comparison to classical mechanics quantum gates and important algorithms in quantum computing are among the topics covered the book offers a valuable resource for graduate and senior undergraduate students in stem science technology engineering and mathematics fields with an interest in designing quantum algorithms readers are expected to have a firm grasp of linear algebra and some familiarity with fourier analysis

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the first translation into english of the standard work on the theory of numbers by one of the greatest masters of modern mathematical analysis this classic was first published in 1801 in latin it has continued to be important to mathematicians as the source of the ideas from which number theory was developed and to students of the history of the electrical astronomical and engineering sciences which were furthered by gauss application of his mathematical principles to these fields father clarke has achieved a sympathetic and faithful translation of this monumental work the book is complete and unabridged and a bibliography of the references cited by gauss has been added by the translator whatever set of values is adopted gauss's *disquisitiones arithmeticae* surely belongs among the greatest mathematical treatises of all fields and periods the appearance of an english version of this classic is most welcome asger aaboe

gauss published *disquisitiones arithmeticae* in 1801 at the age of 24 today it is regarded as one of the most influential mathematical works ever written and one which laid the foundations for modern number theory among many other things the book contains a clear presentation of gauss method of modular arithmetic and the first proof of the law of quadratic reciprocity first conjectured by euler and legendre this is the original latin edition

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