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17 Lectures on Fermat Numbers

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17 Lectures on Fermat Numbers Michal Krizek, Florian Luca, Lawrence Somer, 2013-03-14 French mathematician Pierre de Fermat became most well known for his pioneering work in the area of number theory His work with numbers has been attracting the attention of amateur and professional mathematicians for over 350 years This book was written in honor of the 400th anniversary of his birth and is based on a series of lectures given by the authors The purpose of this book is to provide readers with an overview of the many properties of Fermat numbers and to demonstrate their numerous appearances and applications in areas such as number theory probability theory geometry and signal processing This book introduces a general mathematical audience to basic mathematical ideas and algebraic methods connected with the Fermat numbers and will provide invaluable reading for the amateur and professional alike

Mersenne Numbers And Fermat Numbers Elena Deza, 2021-08-06 This book contains a complete detailed description of two classes of special numbers closely related to classical problems of the Theory of Primes There is also extensive discussions of applied issues related to Cryptography In Mathematics a Mersenne number named after Marin Mersenne who studied them in the early 17 th century is a number of the form $M_n = 2^n - 1$ for positive integer n In Mathematics a Fermat number named after Pierre de Fermat who first studied them is a positive integer of the form $F_n = 2^{2^n} + 1$ where n is a non negative integer Mersenne and Fermat numbers have many other interesting properties Long and rich history many arithmetic connections with perfect numbers with construction of regular polygons etc numerous modern applications long list of open problems allow us to provide a broad perspective of the Theory of these two classes of special numbers that can be useful and interesting for both professionals and the general audience

Recurrence Sequences Graham Everest, Alf van der Poorten, Igor Shparlinski, Thomas Ward, 2015-09-03 Recurrence sequences are of great intrinsic interest and have been a central part of number theory for many years Moreover these sequences appear almost everywhere in mathematics and computer science This book surveys the modern theory of linear recurrence sequences and their generalizations Particular emphasis is placed on the dramatic impact that sophisticated methods from Diophantine analysis and transcendence theory have had on the subject Related work on bilinear recurrences and an emerging connection between recurrences and graph theory are covered Applications and links to other areas of mathematics are described including combinatorics dynamical systems and cryptography and computer science The book is suitable for researchers interested in number theory combinatorics and graph theory

Humankind and the Cosmos: Early Christian Representations Doru Costache, 2021-07-15

In this volume Costache endeavours to map the world as it was understood and experienced by the early Christians Progressing from initial fears they came to adopt a more positive view of the world through successive shifts of perception This did not happen overnight Tracing these shifts Costache considers the world of the early Christians through an interdisciplinary lens revealing its meaningful complexity He demonstrates that the early Christian worldview developed at the nexus of several perspectives What facilitated this process was above all the experience of contemplating nature When accompanied by genuine personal transformation natural contemplation fostered the theological interpretation of the world as it had been known to the ancients

Recent Advances in Algorithms and Combinatorics Bruce A. Reed, Claudia L. Linhares-Sales, 2006-05-17 Combinatorics is one of the fastest growing elds of mathematics In large measure this is because many practical problems can be modeled and then efficiently solved using combinatorial theory This real world motivation for studying algorithmic combinatorics has led not only to the development of many software packages but also to some beautiful mathematics which has no direct application to applied problems In this volume we highlight some exciting recent developments in algorithmic combinatorics Most practical applications of algorithmic combinatorics would be possible without the use of the computer As computers become ever more powerful more and more applications become possible Computational biology is one example of a relatively new eld in which algorithmic combinatorics plays a key role The chapter by Sagot and Wakabayashi in this volume discusses how combinatorial tools can be used to search for patterns in DNA and protein sequences The information technology revolution has not only allowed for the resolution of practical problems using combinatorial techniques it has also been the source of many new combinatorial problems One example is radio channel assignment In this problem we have a number of transmitters each of which must handle a number of calls Each call must be assigned a frequency in such a way that interference is avoided thus calls handled by the same transmitter are assigned different frequencies as are calls handled by transmitters which are near each other The explosive growth in the use of the frequency spectrum due to e.g. mobile telephone networks has made it a very valuable resource

Counting and Configurations Jiri Herman, Radan Kucera, Jaromir Simsa, 2013-03-14 This book can be seen as a continuation of *Equations and Inequalities* Elementary Problems and Theorems in Algebra and Number Theory by the same authors and published as the first volume in this book series However it can be independently read or used as a textbook in its own right This book is intended as a text for a problem solving course at the first or second year university level as a text for enrichment classes for talented high school students or for mathematics competition training It can also be used as a source of supplementary material for any course dealing with combinatorics graph theory number theory or geometry or for any of the discrete mathematics courses that are offered at most American and Canadian universities The underlying philosophy of this book is the same as that of *Equations and Inequalities* The following paragraphs are therefore taken from the preface of that book

Simplicial Partitions with Applications to the Finite Element Method Jan Brandts, Sergey Korotov, Michal Křížek, 2020-10-05 This monograph

focuses on the mathematical and numerical analysis of simplicial partitions and the finite element method. This active area of research has become an essential part of physics and engineering for example in the study of problems involving heat conduction, linear elasticity, semiconductors, Maxwell's equations, Einstein's equations and magnetic and gravitational fields. These problems require the simulation of various phenomena and physical fields over complicated structures in three and higher dimensions. Since not all structures can be decomposed into simpler objects like d dimensional rectangular blocks, simplicial partitions are important. In this book an emphasis is placed on angle conditions guaranteeing the convergence of the finite element method for elliptic PDEs with given boundary conditions. It is aimed at a general mathematical audience who is assumed to be familiar with only a few basic results from linear algebra, geometry and mathematical and numerical analysis.

Dynamical Systems in Population Biology Xiao-Qiang Zhao, 2013-06-05. Population dynamics is an important subject in mathematical biology. A central problem is to study the long term behavior of modeling systems. Most of these systems are governed by various evolutionary equations such as difference, ordinary functional and partial differential equations (see e.g. [165, 142, 218, 119, 55]). As we know, interactive populations often live in a fluctuating environment. For example, physical environmental conditions such as temperature and humidity and the availability of food, water and other resources usually vary in time with seasonal or daily variations. Therefore, more realistic models should be nonautonomous systems. In particular, if the data in a model are periodic functions of time with commensurate period, a periodic system arises if these periodic functions have different minimal periods; we get an almost periodic system. The existing reference books from the dynamical systems point of view mainly focus on autonomous biological systems. The book of Hess [106] is an excellent reference for periodic parabolic boundary value problems with applications to population dynamics. Since the publication of this book, there have been extensive investigations on periodic, asymptotically periodic, almost periodic and even general nonautonomous biological systems which in turn have motivated further development of the theory of dynamical systems. In order to explain the dynamical systems approach to periodic population problems, let us consider as an illustration two species periodic competitive systems:

$$\frac{dU_1}{dt} = U_1(U_2 - 0)$$

Interpolation and Approximation by Polynomials George M. Phillips, 2006-04-06. This book is intended as a course in numerical analysis and approximation theory for advanced undergraduate students or graduate students and as a reference work for those who lecture or research in this area. Its title pays homage to *Interpolation and Approximation* by Philip J. Davis published in 1963 by Blaisdell and reprinted by Dover in 1976. My book is less general than Philip Davis's much respected classic as the qualification by polynomials in its title suggests and it is pitched at a less advanced level. I believe that no one book can fully cover all the material that could appear in a book entitled *Interpolation and Approximation by Polynomials*. Nevertheless, I have tried to cover most of the main topics. I hope that my readers will share my enthusiasm for this exciting and fascinating area of mathematics and that by working through this book, some will be encouraged to read more widely and pursue research in the subject. Since my book is

concerned with polynomials it is written in the language of classical analysis and the only prerequisites are introductory courses in analysis and linear algebra

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