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PISOT AND SALEM NUMBERS

Pisot And Salem Numbers

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Pisot And Salem Numbers:

    <u>Pisot and Salem Numbers</u> Marie J. Bertin,Annette Decomps-Guilloux,Marthe Grandet-Hugot,Martine Pathiaux-Delefosse,Jean Schreiber,2012-12-06 the attention of The publication of Charles Pisot s thesis in 1938 brought to the mathematical community those marvelous numbers now known as the Pisot numbers or the Pisot Vijayaraghavan numbers Although these numbers had been discovered earlier by A Thue and then by G H Hardy it was Pisot s result in that paper of 1938 that provided the link to harmonic analysis as discovered by Raphael Salem and described in a series of papers in the 1940s In one of these papers Salem introduced the related class of numbers now universally known as the Salem numbers These two sets of algebraic numbers are distinguished by some striking arith metic properties that account for their appearance in many diverse areas of mathematics harmonic analysis ergodic theory dynamical systems and alge braic groups Until now the best known and most accessible introduction to these num bers has been the beautiful little monograph of Salem Algebraic Numbers and Fourier Analysis first published in 1963 Since the publication of Salem s book however there has been much progress in the study of these numbers Pisot had long expressed the desire to publish an up to date account of this work but his death in 1984 left this task unfulfilled **Pisot and Salem Numbers** Marie José Bertin,A. Decomps-Guilloux,1992 **Pisot and Salem Numbers from Polynomials of Height One** Keshav Mukunda,2007 We will be primarily concerned with two special kinds of real algebraic integers called Pisot and Salem numbers both of which are characterized by the location of their conjugates in relation to the unit circle in the complex plane While both types of numbers have been studied extensively for many years certain important questions about Pisot numbers are generally better understood than corresponding questions about Salem numbers In 1978 David Boyd extending earlier work done by Jacques Dufresnoy and Charles Pisot in the 1950 s constructed an algorithm to generate all Pisot numbers in any given finite interval of the real line Using this algorithm we describe all Pisot numbers whose minimal polynomial is a Littlewood polynomial one with 1 1 coefficients These are examples of polynomials that are said to have height 1 the height of a polynomial being simply the largest coefficient in absolute value We show that every such Pisot number is a limit point from both sides of sequences of Salem numbers that are roots of Littlewood polynomials We also consider analogous questions for another subset of Height 1 polynomials those with 0 1 coefficients Such polynomials under a suitable normalization have been called Newman polynomials We describe all Pisot numbers whose minimal polynomial is derived from a Newman polynomial and show that each Pisot number of this kind is also a limit from both sides of sequences of Salem numbers derived from Newman polynomials Finally we investigate some similarities and differences between the sets of Littlewood and Newman polynomials especially in connection with their roots One indicator of the location of these roots is the Mahler measure which for a monic polynomial is defined as the product of the absolute values of those roots that lie outside the unit circle Another indicator of the location of roots is the number that lie on the unit circle and we investigate both types of polynomials with palindromic

coefficient sequences in this regard *Algebraic Numbers and Harmonic Analysis* ,2000-04-01 Algebraic Numbers and Harmonic Analysis **Encyclopaedia of Mathematics** Michiel Hazewinkel,2012-12-06 This is the second supplementary volume to Kluwer s highly acclaimed eleven volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing eleven volumes and together these twelve volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein,2002-12-12 Upon publication the first edition of the CRCConcise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d **Distribution Modulo One and Diophantine Approximation** Yann Bugeaud,2012-07-05 A treatment of cutting edge research on the distribution modulo one of sequences and related topics much of it from the last decade There are numerous exercises to aid student understanding of the topic and researchers will appreciate the notes at the end of each chapter extensive references and open problems **Number Theory in Progress** Kálmán Győry,Henryk Iwaniec,Jerzy Urbanowicz,2012-02-13 Proceedings of the International Conference on Number Theory organized by the Stefan Banach International Mathematical Center in Honor of the 60th Birthday of Andrzej Schinzel Zakopane Poland June 30 July 9 1997 **Reviews in Number Theory 1973-83** Richard K. Guy,1984 **Reviews in Number Theory, 1984-96** ,1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in Mathematical Reviews between 1984 and 1996 This is the third such set of volumes in number theory The first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984 *Advances in Number Theory* Canadian Number Theory Association. Conference,1993 This book contains the proceedings of the third conference of the Canadian Number Theory Association The 38 technical papers presented in this volume discuss relevant and timely issues in the fields of analytic number theory arithmetical algebraic geometry and diophantine approximation The book includes several papers honoring Paulo Ribenboim to whom this conference was dedicated Number Theory Canadian Number Theory Association. Conference,1990 International mathematical news ,1993 Sequences, Discrepancies and Applications Michael Drmota,Robert F. Tichy,1997-03-20 The main purpose of this book is to give an overview of the developments during the last 20 years in the theory of uniformly distributed sequences The authors focus on various aspects such as special sequences metric theory geometric concepts of discrepancy irregularities of distribution continuous uniform distribution and uniform distribution in discrete spaces Specific applications are presented in detail numerical integration spherical designs random number generation and mathematical finance Furthermore over 1000 references are collected and discussed While written in the

style of a research monograph the book is readable with basic knowledge in analysis number theory and measure theory
Mathematical Reviews ,2007   **Journal of the Korean Mathematical Society** ,2008   **Acta Arithmetica** ,2018
Verzeichnis lieferbarer Bücher ,2002   Reviews in Number Theory, as Printed in Mathematical Reviews, 1940 Through
1972, Volumes 1-44 Inclusive William Judson LeVeque,1974   *Bulletin of the American Mathematical Society* ,2001

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