

GEOMETRICAL ASPECTS OF EXPANSIONS IN COMPLEX BASES

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ABSTRACT. We study the set of the representable numbers in base $q = pe^{\frac{2\pi i}{n}}$ with $p > 1$ and $n \in \mathbb{N}$ and with digits in a arbitrary finite real alphabet A . We give a geometrical description of the convex hull of the representable numbers in base q and alphabet A and an explicit characterization of its extremal points. A characterizing condition for the convexity of the set of representable numbers is also shown.

1. INTRODUCTION

In this paper we deal with expansions with digits in arbitrary alphabets and bases of the form $pe^{\frac{2\pi i}{n}}$ with $p > 1$ and $n \in \mathbb{N}$, namely we are interested in developments in power series of the form

$$(1) \quad \sum_{j=1}^{\infty} \frac{x_j}{q^j}$$

with the coefficients x_j belonging to a finite set of positive real values A named *alphabet* and the ratio $q = pe^{\frac{2\pi i}{n}}$, named *base*. The assumption $p > 1$ ensures the convergence of (1), being the base q greater than 1 in modulus. When a number x satisfies

$$x = \sum_{j=1}^{\infty} \frac{x_j}{q^j},$$

for a sequence $(x_j)_{j \geq 1}$ with digits in the alphabet A , we say that x is *representable* in base q and alphabet A and we call $(x_j)_{j \geq 1}$ a *representation* or *expansion* of x .

The first number systems in complex base seem to be those in base $2i$ with alphabet $\{0, 1, 2, 3\}$ and the one in base $-1 + i$ and alphabet $\{0, 1\}$, respectively introduced by Knuth in [11] and by Penney in [14]. After that many papers were devoted to representability with bases belonging to larger and larger classes of complex numbers, e.g. see [10] for the Gaussian integers in the form $-a \pm i$ with $a \in \mathbb{N}$, [9] for the quadratic fields and [2] for the general case. Lovett and Kormarik pursued the work in [2] by introducing a greedy algorithm for the expansions in complex base with non rational argument [13]. In the eighties a parallel line of research was developed by Gilbert. In [5] he described the fractal nature of the set of the representable numbers, e.g. the set of representable in base $-1 + i$ with digits $\{0, 1\}$ coincides with the fascinating space-filling twin dragon curves [12]. Hausdorff dimension of some set of representable numbers was calculated in [6] and a weaker notion of self-similarity was introduced for the study of the

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Selected Papers On Geometrical Aspects Of Scattering

Giovanni Pau, Hsing-Chung Chen, Fang-Yie Leu



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Fundamentals of Atmospheric Radiation Craig F. Bohren, Eugene E. Clothiaux, 2006-08-21 Meeting the need for teaching material suitable for students of atmospheric science and courses on atmospheric radiation this textbook covers the fundamentals of emission absorption and scattering of electromagnetic radiation from ultraviolet to infrared and beyond Much of the contents applies to planetary atmosphere with graded discussions providing a thorough treatment of subjects including single scattering by particles at different levels of complexity The discussion of the simple multiple scattering theory introduces concepts in more advanced theories such that the more complicated two stream theory allows readers to progress beyond the pile of plates theory The authors are physicists teaching at the largest meteorology department in the US at Penn State The problems given in the text come from students colleagues and correspondents and the figures designed especially for this book facilitate comprehension Ideal for advanced undergraduate and graduate students of atmospheric science Free solutions manual available for lecturers at www.wiley-vch.de/supplements Light, Plasmonics and Particles

M. Pinar Menguc, Mathieu Francoeur, 2023-05-08 Light Plasmonics and Particles focuses on the fundamental science and engineering applications of light scattering by particles aerosols and hydrosols and of localized plasmonics The book is intended to be a self contained and coherent resource volume for graduate students and professionals in the disciplines of materials science engineering and related disciplines of physics and chemistry In addition to chapters related to fundamental concepts it includes detailed discussion of different numerical models experimental systems and applications In order to develop new devices processes and applications we need to advance our understanding of light matter interactions For this purpose we need to have a firm grasp of electromagnetic wave phenomena and absorption and scattering of waves by different size and shape geometrical objects In addition understanding of tunneling of waves based on electron and lattice vibrations and coupling with the thermal fluctuations to enhance near field energy transfer mechanisms are required for the development of future energy harvesting devices and sensors Reviews the fundamental science available computational tools experimental systems and a wide range of applications of plasmonics Connects the cross cutting science of the physics of electromagnetic light scattering by particles plasmonics and phononic interactions at the electronic molecular and lattice levels of materials Reviews applications of light matter interactions of particles aerosols hydrosols and localized plasmonics

Sonochemistry and Sonoluminescence L.A. Crum, Timothy J. Mason, Jacques L. Reisse, Kenneth S. Suslick, 2013-11-11 Sonochemistry is studied primarily by chemists and sonoluminescence mainly by physicists but a single physical phenomenon acoustic cavitation unites the two areas The physics of cavitation bubble collapse is relatively well understood by acoustical physicists but remains practically unknown to the chemists By contrast the chemistry that gives rise to electromagnetic

emissions and the acceleration of chemical reactions is familiar to chemists but practically unknown to acoustical physicists. It is just this knowledge gap that the present volume addresses. The first section of the book addresses the fundamentals of cavitation leading to a more extensive discussion of the fundamentals of cavitation bubble dynamics in section two. A section on single bubble sonoluminescence follows. The two following sections address the new scientific discipline of sonochemistry and the volume concludes with a section giving detailed descriptions of the applications of sonochemistry. The mixture of tutorial lectures and detailed research articles means that the book can serve as an introduction as well as a comprehensive and detailed review of these two interesting and topical subjects.

How the Ray Gun Got Its Zap Stephen R. Wilk, 2013-10-07

How the Ray Gun Got Its Zap is a collection of essays that discusses odd and unusual topics in optics. Though optics is a fairly specialized branch of physics, this book extracts from the discipline topics that are particularly interesting, mysterious, culturally relevant, or accessible. The essays all first appeared in abbreviated form in *Optics and Photonics News* and in *The Spectrograph*; the author has updated and expanded upon each of them for this book. The book is divided into three thematic sections: History, Weird Science, and Pop Culture. Chapters will discuss surprising uses of optics in classics and early astronomy, explain why we think of the sun as yellow when it is actually white, present how the laser is used in popular film, and profile the eccentric scientists who contributed to optics. The essays are short and entertaining and can be read in any order. The book should appeal to general audiences interested in optics or physics more generally, as well as members of the scientific community who are curious about optics phenomena.

Selected Papers on Digital Image Processing Mohan M. Trivedi, 1990

Selected Papers (1945-1980) Of Chen Ning Yang (With Commentary) Chen Ning Yang, 2005-08-22

A remarkable personal and professional chronicle by one of today's leading physicists, this is a collection of Chen Ning Yang's personally selected papers supplemented by his insightful commentaries. Including previously unpublished or hard-to-find works, this volume contains Yang's important papers on statistical physics, nuclear forces, and particle physics. Among them are his seminal work with T. D. Lee on the nonconservation of parity for which they won the Nobel Prize, and his work with R. L. Mills which led to modern gauge theories with their exciting prospects for the broad unification of field theories. The commentaries were written especially for this volume and provide a fascinating account of Yang's development as a physicist, as well as a look at many important physicists of the 20th century. They trace the development of Yang's interests and ideas from his graduate school days to the present, showing how he worked with his colleagues and how their physics came into being. Together, the papers and commentaries in this unique collection comprise a powerful personal statement shedding light on both the intellectual development of a great physicist and on the nature of scientific inquiry.

Selected Papers, 1945-1980, with Commentary Chen Ning Yang, 2005

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statistical physics nuclear forces and particle physics Among them are his seminal work with T D Lee on the nonconservation of parity for which they won the Nobel Prize and his work with R L Mills which led to modern gauge theories with their exciting prospects for the broad unification of field theories The commentaries were written especially for this volume and provide a fascinating account of Yang s development as a physicist as well as a look at many important physicists of the 20th century They trace the development of Yang s interests and ideas from his graduate school days to the present showing how he worked with his colleagues and how their physics came into being Together the papers and commentaries in this unique collection comprise a powerful personal statement shedding light on both the intellectual development of a great physicist and on the nature of scientific inquiry

Selected Papers from the ISTE GIM'19 Lucien Baldas,Jürgen J. Brandner,Gian Luca Morini,2021-03-01 This Special Issue compiles 11 scientific works that were presented during the International Symposium on Thermal Effects in Gas Flow in Microscale ISTE GIM 2019 held in Ettlingen Germany in October 2019 This symposium was organized in the framework of the MIGRATE Network an H2020 Marie Sk odowska Curie European Training Network that ran from November 2015 to October 2019 www.migrate2015.eu MIGRATE intends to address some of the current challenges in innovation that face the European industry with regard to heat and mass transfer in gas based microscale processes The papers collected in this book focus on fundamental issues that are encountered in microfluidic systems involving gases such as the analysis of gas surface interactions under rarefied conditions the development of innovative integrated microsensors for airborne pollutants new experimental techniques for the measurement of local quantities in miniaturized devices and heat transfer issues inside microchannels The variety of topics addressed in this book emphasizes that multi disciplinarity is the real common thread of the current applied research in microfluidics We hope that this book will help to stimulate early stage researchers who are working in microfluidics all around the world This book is dedicated to them

Selected Topics in the Geometrical Study of Differential Equations Niky Kamran,2002-01-01 The geometrical study of differential equations has a long and distinguished history dating back to the classical investigations of Sophus Lie Gaston Darboux and Elie Cartan Currently these ideas occupy a central position in several areas of pure and applied mathematics In this book the author gives an overview of a number of significant ideas and results developed over the past decade in the geometrical study of differential equations Topics covered in the book include symmetries of differential equations and variational problems the variational bi complex and conservation laws geom

Selected Papers from the 5th International Electronic Conference on Sensors and Applications Francisco Falcone,Stefano Mariani,Francesco Ciucci,Dirk Lehmkus,Thomas B. Messervey,Alberto Vallan,Stefan Bosse,2020-12-29 This Special Issue comprises selected papers from the proceedings of the 5th International Electronic Conference on Sensors and Applications held on 15 30 November 2018 on sciforum.net an online platform for hosting scholarly e conferences and discussion groups In this 5th edition of the electronic conference contributors were invited to provide papers and presentations from the field of

sensors and applications at large resulting in a wide variety of excellent submissions and topic areas Papers which attracted the most interest on the web or that provided a particularly innovative contribution were selected for publication in this collection These peer reviewed papers are published with the aim of rapid and wide dissemination of research results developments and applications We hope this conference series will grow rapidly in the future and become recognized as a new way and venue by which to electronically present new developments related to the field of sensors and their applications

Computer Vision and Image Processing Satish Kumar Singh, Partha Roy, Balasubramanian Raman, P.

Nagabhushan, 2021-03-25 This three volume set CCIS 1376 1378 constitutes the refereed proceedings of the 5th International Conference on Computer Vision and Image Processing CVIP 2020 held in Prayagraj India in December 2020 Due to the COVID 19 pandemic the conference was partially held online The 134 papers were carefully reviewed and selected from 352 submissions The papers present recent research on such topics as biometrics forensics content protection image enhancement super resolution restoration motion and tracking image or video retrieval image image video processing for autonomous vehicles video scene understanding human computer interaction document image analysis face iris emotion sign language and gesture recognition 3D image video processing action and event detection recognition medical image and video analysis vision based human GAIT analysis remote sensing and more

Selected Papers from the First International Symposium on Future ICT (Future-ICT 2019) in Conjunction with 4th International Symposium on Mobile Internet Security (MobiSec 2019) Giovanni Pau, Hsing-Chung Chen, Fang-Yie Leu, 2021-05-11 The International Symposium on Future ICT Future ICT 2019 in conjunction with the 4th International Symposium on Mobile Internet Security MobiSec 2019 was held on 17 19 October 2019 in Taichung Taiwan The symposium provided academic and industry professionals an opportunity to discuss the latest issues and progress in advancing smart applications based on future ICT and its relative security The symposium aimed to publish high quality papers strictly related to the various theories and practical applications concerning advanced smart applications future ICT and related communications and networks It was expected that the symposium and its publications would be a trigger for further related research and technology improvements in this field

Modern Alchemy: Selected Papers Of Glenn T Seaborg Glenn T Seaborg, 1994-05-20 During his distinguished career spanning more than 50 years Nobel laureate Chemistry Glenn T Seaborg published over 500 works This volume puts together about 100 of his selected papers The papers are divided into five categories Category I consists of papers which detail the discovery of 10 transuranium elements and numerous heavy isotopes of special importance Category II papers describe the discovery of a number of isotopes which became the workhorses of nuclear medicine or found other applications Papers in Category III describe how the chemical properties of transuranium elements were originally determined how chemistry is applied in nuclear sciences and other chemical investigations including early work done with the great chemist G N Lewis Papers in Category IV cover radioactive decay chains and nuclear systematics Lastly papers in

Category V illustrate how the powerful methods of chemistry are used to explain nuclear reactions in low intermediate and high energy nuclear physics

A Selected Listing of NASA Scientific and Technical Reports for 1966 United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1967

A Selected Listing of NASA Scientific and Technical Reports for ... United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1966

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977

Selected Papers on Acousto-optics Adrian Korpel, 1990 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

Low Dimensional Properties Of Solids: Nobel Jubilee Symposium - Proceedings Of The Nobel Jubilee Symposium T Claeson, M Jonson, 1993-03-08 Rarely do so many leading physicists attend one symposium No less than nine Nobel laureates and some 40 other top researchers gathered for this symposium and this book contains the material presented in invited talks as well as the posters The 34 papers are organised into three groups corresponding to various aspects of low dimensional physics of solids

Introduction to Radiometry and Photometry, Second Edition William Ross McCluney, 2014-11-01 This second edition of an Artech House classic title describes in detail the relationship between radiometry and photometry It covers information needed to solve problems in radiation transfer and detection detectors measuring instruments and concepts in colorimetry This revised second edition presents an updated treatment of modern radiometry and photometry including brand new sections on applications and developments in light sources and scientific instruments for measuring radiation and light Engineers are also provided with an exciting new chapter on the use of computerized optical ray tracing for virtual experiments on optical systems

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