

Mathematics

Mathematics for Reliability Engineering Mathematical Fluid Mechanics MUS - Mathematimus - Hyperelliptical Geometry Observability and Mathematics Modeling Advances in Mathematical Inequalities Integral Transforms and Applications Smooth Analysis in Banach Spaces CFD Simulation Mathematics Teaching in the Middle School Teaching Children Mathematics Technology Integration in the 21st Century Classroom The African Book Publishing Record Discrete Mathematics Research EU. Discrete Mathematics Mathematics Fun and Fundamentals of Mathematics AMSTAT News Das Gewicht der PISA-Studie Challenges Facing Chinese Political Development Mangey Ram B. Mahanthesh Stenio Musich Nikolai Khots Shigeru Furuichi Nita H. Shah Petr Hájek Fateh Mebarek-Oudina Anthony G. Brewer Babu Ram Krishna R. Kumar J. J. Dreyer J.V. Narlikar American Statistical Association André Schneider Sujian Guo

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reliability is a fundamental criterium in engineering systems this book shows innovative concepts and applications of mathematics in solving reliability problems the contents address in particular the interaction between engineers and mathematicians as well as the cross fertilization in the advancement of science and technology it bridges the gap between theory and practice to aid in practical problem solving in various contexts

this book aims to include various significant research topics of mathematical fluid mechanics having relevance or applications in engineering and applied sciences covering the tools and techniques used for developing mathematical methods and modelling related to real life situations

m u s mathematical uniform space is a new number of π pi representing the reality of the universe in which we live with this number we created a new geometry hyperelliptical geometry which will provide the unification of physics thus uniting the theory of relativity and quantum theory a new geometry for a new mathematics and a new physics isbn 978 65 00 98107 0

observability in mathematics were developed by authors based on denial of infinity idea we introduce observers into arithmetic and arithmetic becomes dependent on observers and after that the basic mathematical parts also become dependent on observers one of such parts is geometry geometry plays important role not only in pure mathematics but in contemporary physics for example in relativity theory quantum yang mills theory we call new geometry both observers in arithmetics and in geometry we reconsider the basis of classic geometry points straight lines planes and space from this mathematics point of view the relations of connection order parallels euclid gauss bolyai lobachevsky riemann congruence continuity are discovered and have new properties we show that almost all classic geometry theorems are satisfied in mathematics with observers geometry with probabilities less than 1 that means classic geometries are not a limiting cases of the observer s geometry but are only particular cases and new geometry opens the road to reconsider differential geometry algebraic geometry geometric algebra topology and also to reconsider geometrical applications to various parts of contemporary physics we proved that mathematics with observers gives a birth a new geometry

mathematical inequalities are essential tools in mathematics natural science and engineering this book gives an overview on recent advances some generalizations and improvements for the classical and well known inequalities are described they will be applied and further developed in many fields applications of the inequalities to entropy theory and quantum physics are also included

this work presents the guiding principles of integral transforms needed for many applications when solving engineering and science problems as a modern approach to laplace transform fourier series and z transforms it is a valuable reference for professionals and students alike

this book is about the subject of higher smoothness in separable real banach spaces it brings together several angles of view on polynomials both in finite and infinite setting also a rather thorough and systematic view of the more recent results and the authors work is given the book revolves around two main broad questions what is the best smoothness of a given banach space and its structural consequences how large is a supply of smooth functions in the sense of approximating continuous functions in the uniform topology i.e. how does the stone weierstrass theorem generalize into infinite dimension where measure and compactness are not available the subject of infinite dimensional real higher smoothness is treated here for the first time in full detail therefore this book may also serve as a reference book

information about the author fateh mebarek oudina received his phd in 2010 he has published more than 120 papers in reputed international journals currently he works as a full professor at skikda university in algeria and regularly serves as a reviewer for more than 250 international journals he is ranked in the top 2 scientists worldwide 2020 2021 2022 2023 by stanford university his research work is focused on heat and mass transfer mhd mathematical simulation and modelling biofluids nanofluids hybrid nanofluids ternary nanofluids microfluidics and computational fluid dynamics information about the book mathematical modeling presented in the book is designed to help engineers understand physical systems including magnetohydrodynamic effects on the non newtonian fluid flow and multiphase flow special attention will be given to heat transfer and entropy generation analysis on hybrid nanofluids the process of entropy generation for nanofluid flows through porous channels will also be discussed and analyzed by means of a theoretical approach and cfd modeling some applications to blood mediated gold silver nanoparticles will be presented with detailed numerical examples the book is designed to facilitate a more profound understanding for engineers of adopting cfd models to natural manufacturing environments overall the primary objective of the book is to present mathematical modeling with cfd applications to simulate real world engineering industrial and medical science problems to expose various analytical and numerical techniques and at the same time extend to expose researchers and academicians to the recent advancement in these diverse fields

discrete mathematics will be of use to any undergraduate as well as post graduate courses in computer science and mathematics the syllabi of all these courses have been studied in depth and utmost care has been taken to ensure that all the essential topics in discrete structures are adequately emphasized the book will enable the students to develop the requisite computational skills needed in software engineering

this book introduces fundamental ideas in mathematics through interesting puzzles students from age 12 upwards who are bored with routine classwork in maths will enjoy these puzzles which will sharpen their logical reasoning it is designed to arouse an interest in mathematics among readers in the 12-18 age group

studienarbeit aus dem jahr 2006 im fachbereich germanistik didaktik note 1,0 Humboldt universität zu Berlin philosophische fakultät II veranstaltung hauptseminar arbeiten mit bildungsstandards wege kumulativen lernens sprache deutsch anmerkungen kommentar des professors überzeugende metaanalyse note 1,0 umfangreiches literaturverzeichnis abstract die internationale vergleichsstudie hat in den teilnehmenden industriestaaten für einen erheblichen gesprächsbedarf gesorgt dies vor allem in den ländern deren ergebnisse nicht im bereich des erwarteten bzw erhofften lagen das interesse an den resultaten beschränkte sich nicht allein auf die international angelegte PISA studie die im jahr 2000 begonnen wurde und von diesem zeitpunkt an im drei jahres zyklus insgesamt dreimal durchgeführt werden sollte auch die national begleitenden testverfahren in deutschland etwa PISA e in Österreich PISA plus fanden starke beachtung wobei zwischen den reaktionen der öffentlichen meinung und denen der fachwelt zu unterscheiden ist und wiederum in den ländern mit den schlechteren ergebnissen die heftigeren auseinandersetzungen um diese thematik zu verzeichnen sind in der vorliegenden arbeit soll zunächst einmal auf die geschichte internationaler bildungstests geblickt werden um in abgrenzung zu früheren erhebungen einige besonderheiten der PISA studie herauszuheben auch die gemeinsamkeiten sollen unter diesem aspekt eine rolle spielen lässt sich doch eine gewisse erhebungstradition seit den 60er jahren ausmachen die untersuchung konzentriert sich auf die durchführung und wirkung der studie zum einen werden ihre technischen merkmale betrachtet wobei auch auf die inhalte und ziele der erhebung eingegangen werden soll zum anderen geht es um die reaktionen die durch die testergebnisse hervorgerufen wurden hierbei soll zwischen den reaktionen der Öffentlichkeit und denen der fachwelt unterschieden werden es scheint als ob die ersten wirkungen

examining the challenges of chinese political development from a holistic perspective each of the authors emphasizes a particular dimension of political culture political economy foreign policy and environmental and social challenges

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