

NOTE: Attempt FIVE Questions in All. THREE Questions from Section "A" and TWO Questions from Section "B". Calculator is allowed.

SECTION - A

- Q No. 1:**
- (a) Evaluate $\lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$ where n tends to infinity through positive integral values only.
- (b) State and prove Leibniz theorem. Find n th derivative of $e^x \ln x$ (20 Marks)

- Q No. 2:**
- a) Find (i) $\lim_{x \rightarrow 0} (\cot x)^{x \sin 2x}$
- (ii) $\lim_{x \rightarrow \frac{\pi}{2}} \left(\frac{\tan x}{\tan 3x}\right)$
- b) Evaluate (i) $\int \frac{dx}{\sqrt{x-x^3}}$ (ii) $\int_{-3}^3 |x| dx$

(20 Marks)

- Q No. 3:**
- a) Evaluate $\int_0^1 \int_0^x (x^2 + 4xy) dy dx$
- b) Evaluate $\iiint_s 3(x^2 + y^2 + z^2) dv$

Where s is bounded by the planes $x = 1, x = 3, y = -1, y = 1, z = 2$ and $z = 4$.

(20 Marks)

- Q No. 4:** Solve the initial value problems:-

- a) $(x^2 + 3y^2)dx - 2xy dy = 0, \quad y(2) = 6$
- b) $(x^2 + 1) \frac{dy}{dx} + 4xy = x, \quad y(2) = 1$

(20 Marks)

- Q No. 5:**
- a) A body of mass 2 slugs is dropped with no initial velocity and encounters an air resistance that is proportional to the square of its velocity. Find an expression for the velocity of the body at any time.

- (b) Approximate $\int_0^2 \frac{1}{\sqrt{x^2+1}} dx$ with $n = 4$

By using rules (i) Trapezoidal (ii) Simpson's

(20 Marks)

P.T.O

Math Paper 1 March 2015

David H. Bailey, Jonathan M. Borwein



Math Paper 1 March 2015:

Biomat 2015 - International Symposium On Mathematical And Computational Biology Rubem P

Mondaini, 2016-04-28 This is a book of an international series on interdisciplinary topics of the Mathematical and Biological Sciences. The chapters are related to selected papers on the research themes presented at BIOMAT 2015 International Symposium on Mathematical and Computational Biology which was held in the Roorkee Institute of Technology in Roorkee Uttarakhand India on November 02-06 2015. The treatment is both pedagogical and advanced in order to motivate research students to fulfill the requirements of professional practitioners. As in other volumes of this series there are new important results on the interdisciplinary fields of mathematical and biological sciences and comprehensive reviews written by prominent scientific leaders of famous research groups. There are new results based on the state of art research in Population Dynamics on Pattern Recognition of Biological Phenomena the Mathematical Modelling of Infectious Diseases Computational Biology the Dynamic and Geometric Modelling of Biological Phenomena the Modelling of Physiological Disorders the Optimal Control Techniques in Mathematical Modelling of Biological Phenomena the Hydrodynamics and Elasticity of Cell Tissues and Bacterial Growth and the Mathematical Morphology of Biological Structures. All these contributions are also strongly recommended to professionals from other scientific areas aiming to work on these interdisciplinary fields.

Pi: The Next Generation David H. Bailey, Jonathan M. Borwein, 2016-07-19 This book contains a compendium of 25 papers published since the 1970s dealing with π and associated topics of mathematics and computer science. The collection begins with a Foreword by Bruce Berndt. Each contribution is preceded by a brief summary of its content as well as a short key word list indicating how the content relates to others in the collection. The volume includes articles on actual computations of π , articles on mathematical questions related to π , e.g. Is π normal? articles presenting new and often amazing techniques for computing digits of π , e.g. the BBP algorithm for π which permits one to compute an arbitrary binary digit of π without needing to compute any of the digits that came before, papers presenting important fundamental mathematical results relating to π and papers presenting new high tech techniques for analyzing π , i.e. new graphical techniques that permit one to visually see if π and other numbers are normal. This volume is a companion to *Pi: A Source Book* whose third edition released in 2004. The present collection begins with 2 papers from 1976 published by Eugene Salamin and Richard Brent which describe quadratically convergent algorithms for π and other basic mathematical functions derived from some mathematical work of Gauss. Bailey and Borwein hold that these two papers constitute the beginning of the modern era of computational mathematics. This time period 1970s also corresponds with the introduction of high performance computer systems, supercomputers which since that time have increased relentlessly in power by approximately a factor of 100 000 000, advancing roughly at the same rate as Moore's Law of semiconductor technology. This book may be of interest to a wide range of mathematical readers; some articles cover more advanced research questions suitable for active researchers in the

field but several are highly accessible to undergraduate mathematics students

Mathematics Education Jacqueline Dewar, Pao-sheng Hsu, Harriet Pollatsek, 2016-11-26 Many in the mathematics community in the U S are involved in mathematics education in various capacities This book highlights the breadth of the work in K 16 mathematics education done by members of US departments of mathematical sciences It contains contributions by mathematicians and mathematics educators who do work in areas such as teacher education quantitative literacy informal education writing and communication social justice outreach and mentoring tactile learning art and mathematics ethnomathematics scholarship of teaching and learning and mathematics education research Contributors describe their work its impact and how it is perceived and valued In addition there is a chapter co authored by two mathematicians who have become administrators on the challenges of supporting evaluating and rewarding work in mathematics education in departments of mathematical sciences This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community The writing is expository not technical and should be accessible and informative to a diverse audience The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities and their administrators as well as graduate students Researchers in education may also find topics of interest Other potential readers include those doing work in mathematics education in schools of education and teachers of secondary or middle school mathematics as well as those involved in their professional development

Model and Mathematics: From the 19th to the 21st Century Michael Friedman, Karin Krauthausen, 2022-08-08 This open access book collects the historical and medial perspectives of a systematic and epistemological analysis of the complicated multifaceted relationship between model and mathematics ranging from for example the physical mathematical models of the 19th century to the simulation and digital modelling of the 21st century The aim of this anthology is to showcase the status of the mathematical model between abstraction and realization presentation and representation what is modeled and what models This book is open access under a CC BY 4 0 license

Coding + Math Nicol R. Howard, Keith E. Howard, 2022-08-17 This book offers a deep dive into computer science integration providing guidelines for designing elementary CS math curricula through case studies and practical examples How to books related to computer science CS and teaching CS in K 12 environments are often either step by step guides or reference books with little or no connection to pedagogy By contrast Coding Math offers the analytical foundation teachers need to inform their practice specifically in mathematics Grounded in research the book s mini lessons contrast visual based coding with text based programming and provide guidance in the selection and creation of lessons instructional materials and CS platforms to help educators prepare students for the careers of the future The book Includes case studies in each chapter with a research snapshot that contextualizes the key elements of the case study Offers strategies for getting out the blocks and introducing text based CS when students are ready Examines the rationale and effectiveness of scaffolded approaches to CS such as block coding

scripted and storyboarding vs traditional syntax based and problem solving approaches Ties effective teaching strategies directly to the CSTA K 12 Computer Science Standards ISTE s Standards for Computer Science Educators and the ISTE Computational Thinking Competencies Coding Math will strengthen the ties between math and CS to support students achievement in math as well as their future CS course selections and pursuits of CS careers **New Results on**

Semilinear Sets and Variants of Jumping Finite Automata Simon Beier,2020-11-09 In formal language theory the Parikh image describes the absolute frequencies of symbols in words of a given language The Parikh images of regular languages are the same as the ones of context free languages These kinds of sets are called semilinear Another algebraically defined class of sets has played an important role since the early days of formal language theory recognizable subsets of monoids are a generalization of regular languages A set is recognizable if and only if its syntactic monoid is finite The first part of this monograph gives new results on semilinear sets The descriptive complexity of operations is investigated Semirecognizable subsets of monoids are introduced Semirecognizability demands that the projection of the subset to its syntactic monoid is finite The semirecognizable subsets of finitely generated free commutative monoids which form a proper subset of the semilinear sets are studied Connections to rational cones enable the use of geometric methods Jumping finite automata are a model for discontinuous information processing that has attracted interest for some years Their operational state complexity and a variant called right one way jumping finite automata are explored in the second part We show that a permutation closed language is accepted by this variant if and only if it is semirecognizable Results from the first part are used to get a better insight into these devices Seeing Cities Through Big Data Piyushimita (Vonu) Thakuria, Nebiyu Tilahun, Moira Zellner,2016-10-07 This book introduces the latest thinking on the use of Big Data in the context of urban systems including research and insights on human behavior urban dynamics resource use sustainability and spatial disparities where it promises improved planning management and governance in the urban sectors e g transportation energy smart cities crime housing urban and regional economies public health public engagement urban governance and political systems as well as Big Data s utility in decision making and development of indicators to monitor economic and social activity and for urban sustainability transparency livability social inclusion place making accessibility and resilience **The Routledge**

Companion on Architecture, Literature and The City Jonathan Charley,2018-09-03 This Companion breaks new ground in our knowledge and understanding of the diverse relationships between literature architecture and the city which together form a field of interdisciplinary research that is one of the most innovative and exciting to have emerged in recent years Bringing together a wide variety of contributors not only writers architectural and literary scholars and social scientists but graphic novelists and artists the book offers contemporary essays on everything from science fiction and the crime novel to poetry comics and oral history It is structured into two sections History Narrative and Genre and Strategy Language and Form Including over ninety illustrations the book is a must read for academics and students Assistive Technology C.

Sik-Lányi,E.-J. Hoogerwerf,K. Miesenberger,2015-08-27 Assistive Technology AT is the term used to describe products or technology based services which support those with disabilities or other limitations to their daily activities enabling them to enjoy a better quality of life This book presents the proceedings of the 13th European Conference on the Advancement of Assistive Technology AAATE 2015 held in Budapest Hungary in September 2015 This biennial conference has established itself as a leading forum in the transdisciplinary area of Assistive Technology providing a unique platform for the gathering of experts from around the world to review progress and challenges in the interdisciplinary fields which contribute to AT such as research development manufacturing supply provision and policy The theme of the 2015 conference is Attracting new areas and building bridges and this book contains 138 reviewed papers and 28 poster presentations delivered at the conference covering AT themes as diverse as aging blindness mobility assisted living and accessibility for people with dementia and cognitive impairment Offering a current overview of many aspects of AT this book will be of interest to all those from researchers and manufacturers to healthcare professionals and end users whose work or daily life involves the relationship between technology and disability

Teaching Secondary and Middle School Mathematics Daniel J. Brahier,2020-04-01 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the chapters five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics A Quick Reference Guide has been added to the front of the book to assist the reader in identifying

the most useful chapter features by topic A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure as well as a discussion of practical suggestions for success in methods and student teaching experiences Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices An updated Instructor's Manual features a test bank sample classroom activities Powerpoint slides chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com/9780367146511 Inspiring Primary Learners Roger McDonald, Poppy Gibson, 2021-02-25 Inspiring Primary Learners offers trainee and qualified teachers high quality case studies of outstanding practice in contemporary classrooms across the country Expert authors unravel and reveal the theory and evidence that underpins lessons helping you make connections with your own practice and understand what excellent looks like within each context and how it is achieved Illustrated throughout with interviews photos and examples of children's work it covers a range of primary subjects and key topics including creating displays outdoor learning and developing a reading for pleasure culture The voice of the practitioner is evident throughout as teachers share their own experience difficulties and solutions to ensure that children are inspired by their learning Written in two parts the first exemplifies examples of practice for each National Curriculum subject whilst the second focuses on the wider curriculum and explores issues pertinent to the primary classroom highlighting important discussions on topics such as Reading for pleasure Writing for pleasure Creating a dynamic and responsive curriculum Creating inspiring displays Outdoor learning Pedagogy for imagination Relationships and Sex Education This key text shows how even within the contested space of education practitioners can inspire their primary learners through teaching with passion and purpose for the empowerment of the children in their class For all new teachers it provides advice and ideas for effective and engaging learning experiences across the curriculum *Discrete Encounters* Craig Bauer, 2020-05-14 Eschewing the often standard dry and static writing style of traditional textbooks Discrete Encounters provides a refreshing approach to discrete mathematics The author blends traditional course topics and applications with historical context pop culture references and open problems This book focuses on the historical development of the subject and provides fascinating details of the people behind the mathematics along with their motivations deepening readers appreciation of mathematics This unique book covers many of the same topics found in traditional textbooks but does so in an alternative entertaining style that better captures readers attention In addition to standard discrete mathematics material the author shows the interplay between the discrete and the continuous and includes high interest topics such as fractals chaos theory cellular automata money saving financial mathematics and much more Not only will readers gain a greater understanding of mathematics and its culture they will also be encouraged to further explore the subject Long lists of references at the end of each chapter make this easy Highlights Features fascinating historical context to motivate readers Text includes numerous pop culture references

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Control of Fuel Cell Systems Mohd Azlan Hussain,Wan Ramli Wan Daud,2021-03-25 In this Special Issue we have several papers related to fuel cell based cogeneration systems the management and control of fuel cell systems the analysis simulation and operation of different types of fuel cells modelling and online experimental validation and the environment assessment of cathode materials in lithium ion battery energy generation systems A paper which gives a comprehensive review with technical guidelines for the design and operation of fuel cells especially in a cogeneration system setup which can be an important source of references for the optimal design and operation of various types of fuel cells in cogeneration systems can also be found in this Special Issue *The Emergence of the Urban Entrepreneur* Boyd Cohen,Pablo Muñoz,2016-05-16 Combining emerging trends in collaboration democratization and urbanization this book examines the emergence of entrepreneurship and innovation as a primarily urban phenomenon explains why urban environments are rapidly attracting global innovators across three distinct forms of urbanpreneurship and lights the path forward for entrepreneurs innovators and city governments The world is urbanizing rapidly Currently 600 cities account for 60 percent of the global economy by 2025 it is predicted that the top 100 cities will account for 35 percent of the world s economy Emerging trends in collaboration the sharing economy and innovation are opening up new opportunities for entrepreneurs in urban environments urbanpreneurs to participate in everything from tech startups in cities instead of suburban tech parks to makers and on demand service providers to roles in civic entrepreneurship for those interested in solving the challenges that growing cities are facing Readers of this book will understand how the converging trends of collaboration democratization and urbanization are rapidly attracting global innovators to cities capable of creating the enabling environment for aspiring innovators The book discusses how entrepreneurs can best capitalize on the opportunities in urban settings identifies what large and small cities can do to encourage more urbanpreneurship and concludes with a consideration of the future of entrepreneurship in urban environments *Stochastic Processes with Applications* Antonio Di Crescenzo,Claudio Macci,Barbara Martinucci,2019-11-28 Stochastic processes have wide relevance in mathematics both for theoretical aspects and for their numerous real world applications in various domains They represent a very active research field which is attracting the growing interest of scientists from a range of disciplines This Special Issue aims to present a collection of current contributions concerning various topics related to stochastic processes and their applications In particular the focus here is on applications of stochastic processes as models of dynamic phenomena in research areas certain to be of interest such as economics statistical physics queuing theory biology theoretical neurobiology and reliability theory Various

contributions dealing with theoretical issues on stochastic processes are also included *Stability Problems for Stochastic Models: Theory and Applications* Alexander Zeifman, Victor Korolev, Alexander Sipin, 2021-03-05 The aim of this Special Issue of Mathematics is to commemorate the outstanding Russian mathematician Vladimir Zolotarev whose 90th birthday will be celebrated on February 27th 2021 The present Special Issue contains a collection of new papers by participants in sessions of the International Seminar on Stability Problems for Stochastic Models founded by Zolotarev Along with research in probability distributions theory limit theorems of probability theory stochastic processes mathematical statistics and queuing theory this collection contains papers dealing with applications of stochastic models in modeling of pension schemes modeling of extreme precipitation construction of statistical indicators of scientific publication importance and other fields

Make Your Kid A Money Genius (Even If You're Not) Beth Kobliner, 2017-02-07 Edition statement indicates hardcover but this item is paperback *Mathematical Intelligence* Mubeen Junaid, 2022-11-01 A fresh exploration into the human nature versus technology argument revealing an unexpected advantage that humans have over our future robot masters we re actually good at mathematics There s so much discussion about the threat posed by intelligent machines that it sometimes seems as though we should simply surrender to our robot overlords now But Junaid Mubeen isn t ready to throw in the towel just yet As far as he is concerned we have the creative edge over computers because of a remarkable system of thought that humans have developed over the millennia It s familiar to us all but often badly taught in schools and misrepresented in popular discourse math Computers are of course brilliant at totting up sums pattern seeking and performing mindless tasks of well computation For all things calculation machines reign supreme But Junaid identifies seven areas of intelligence where humans can retain a crucial edge And in exploring these areas he opens up a fascinating world where we can develop our uniquely human mathematical talents Just a few of the fascinating subjects covered in MATHEMATICAL INTELLIGENCE include Humans are endowed with a natural sense of numbers that is based on approximation rather than precise calculation Our in built estimation skills complement the precision of computers Interpreting the real world depends on both What sets humans apart from other animals is language and abstraction We have an extraordinary ability to create powerful representations of knowledge more diverse than the binary language of computers Mathematics confers the most robust logical framework for establishing permanent truths Reasoning shields us from the dubious claims of pure pattern recognition systems All mathematical truths are derived from a starting set of assumptions or axioms Unlike computers humans have the freedom to break free of convention and examine the logical consequences of our choices Mathematics rewards our imagination with fascinating and on occasion applicable concepts that originate from breaking the rules Computers can be tasked to solve a range of problems but which problems are worth the effort Questioning is as vital to our repertoire of thinking skills as problem solving itself [A Conversation on Professional Norms in Mathematics](#) Pamela E. Harris, Michael A. Hill, Dagan Karp, Emily Riehl, Mathilde Gerbelli-Gauthier, 2021-10-19 The

articles in this volume grew out of a 2019 workshop held at Johns Hopkins University that was inspired by a belief that when mathematicians take time to reflect on the social forces involved in the production of mathematics actionable insights result. Topics range from mechanisms that lead to an inclusion/exclusion dichotomy within mathematics to common pitfalls and better alternatives to how mathematicians approach teaching, mentoring, and communicating mathematical ideas. This collection will be of interest to students, faculty, and administrators wishing to gain a snapshot of the current state of professional norms within mathematics and possible steps toward improvements.

Light Metals 2018 Olivier Martin, 2018-01-31. The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments, discoveries, and practices in primary aluminum science and technology. The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies. The 2018 collection includes papers from the following symposia: 1. Alumina and Bauxite, 2. Aluminum Alloys Processing and Characterization, 3. Aluminum Reduction Technology, 4. Cast Shop Technology, 5. Cast Shop Technology Energy Joint Session, 6. Cast Shop Technology Fundamentals of Aluminum Alloy Solidification Joint Session, 7. Cast Shop Technology Recycling and Sustainability Joint Session, 8. Electrode Technology for Aluminum Production, 9. Perfluorocarbon Generation and Emissions from Industrial Processes, 10. Scandium Extraction and Use in Aluminum Alloys.

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