

## Final Exam Review

### Series and Sequences

1. Consider the infinite geometric series  $405 + 270 + 180 + \dots$ .
- (a) For this series, find the common ratio, giving your answer as a fraction in its simplest form.
  - (b) Find the fifteenth term of this series.
  - (c) Find the **exact** value of the sum of the infinite series.
- (Total 6 marks)
2. A sum of \$5000 is invested at a compound interest rate of 6.3% per annum.
- (a) Write down an expression for the value of the investment after  $n$  full years.
  - (b) What will be the value of the investment at the end of five years?
  - (c) The value of the investment will exceed \$10000 after  $n$  full years.
    - (i) Write down an inequality to represent this information.
    - (ii) Calculate the minimum value of  $n$ .
- (Total 6 marks)
3. Let  $S_n$  be the sum of the first  $n$  terms of the arithmetic series  $2 + 4 + 6 + \dots$ .
- (a) Find
    - (i)  $S_{40}$
    - (ii)  $S_{100}$ .
- (4)
- Let  $M = \begin{pmatrix} 1 & 2 \\ 0 & 1 \end{pmatrix}$ .
- (b) (i) Find  $M^2$ .
  - (ii) Show that  $M^3 = \begin{pmatrix} 1 & 6 \\ 0 & 1 \end{pmatrix}$ .
- (5)
- It may now be assumed that  $M^n = \begin{pmatrix} 1 & 2n \\ 0 & 1 \end{pmatrix}$ , for  $n \geq 4$ . The sum  $T_n$  is defined by
- $$T_n = M^1 + M^2 + M^3 + \dots + M^n.$$
- (c) (i) Write down  $M^4$ .
  - (ii) Find  $T_4$ .
- (4)
- (d) Using your results from part (a) (ii), find  $T_{100}$ .
- (3)
- (Total 16 marks)

# Solutions Ib Math Sl 2013

**Erik Mosekilde, Lis Mosekilde**



## **Solutions Ib Math SI 2013:**

*Fuzzy Differential Equations and Applications for Engineers and Scientists* S. Chakraverty, Smita Tapaswini, Diptiranjan Behera, 2016-11-25 Differential equations play a vital role in the modeling of physical and engineering problems such as those in solid and fluid mechanics viscoelasticity biology physics and many other areas In general the parameters variables and initial conditions within a model are considered as being defined exactly In reality there may be only vague imprecise or incomplete information about the variables and parameters available This can result from errors in measurement observation or experimental data application of different operating conditions or maintenance induced errors To overcome uncertainties or lack of precision one can use a fuzzy environment in parameters variables and initial conditions in place of exact fixed ones by turning general differential equations into Fuzzy Differential Equations FDEs In real applications it can be complicated to obtain exact solution of fuzzy differential equations due to complexities in fuzzy arithmetic creating the need for use of reliable and efficient numerical techniques in the solution of fuzzy differential equations These include fuzzy ordinary and partial fuzzy linear and nonlinear and fuzzy arbitrary order differential equations This unique work provides a new direction for the reader in the use of basic concepts of fuzzy differential equations solutions and its applications It can serve as an essential reference work for students scholars practitioners researchers and academicians in engineering and science who need to model uncertain physical problems

**Partition Functions and Automorphic Forms** Valery A. Gritsenko, Vyacheslav P. Spiridonov, 2020-07-09 This book offers an introduction to the research in several recently discovered and actively developing mathematical and mathematical physics areas It focuses on 1 Feynman integrals and modular functions 2 hyperbolic and Lorentzian Kac Moody algebras related automorphic forms and applications to quantum gravity 3 superconformal indices and elliptic hypergeometric integrals related instanton partition functions 4 moonshine its arithmetic aspects Jacobi forms elliptic genus and string theory and 5 theory and applications of the elliptic Painleve equation and aspects of Painleve equations in quantum field theories All the topics covered are related to various partition functions emerging in different supersymmetric and ordinary quantum field theories in curved space times of different  $d = 2, 3, 6$  dimensions Presenting multidisciplinary methods localization Borchers products theory of special functions Cremona maps etc for treating a range of partition functions the book is intended for graduate students and young postdocs interested in the interaction between quantum field theory and mathematics related to automorphic forms representation theory number theory and geometry and mirror symmetry

[Encyclopedia of Polymer Applications, 3 Volume Set](#) Munmaya Mishra, 2018-12-17 Undoubtedly the applications of polymers are rapidly evolving Technology is continually changing and quickly advancing as polymers are needed to solve a variety of day to day challenges leading to improvements in quality of life The Encyclopedia of Polymer Applications presents state of the art research and development on the applications of polymers This groundbreaking work provides important overviews to help stimulate further advancements in all areas of

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**Waves and Boundary Problems** Sergey G. Glebov, Oleg M. Kiselev, Nikolai N. Tarkhanov, 2018-06-11 This is the second volume of Nonlinear Equations with Small Parameter containing new methods of construction of global asymptotics of solutions to nonlinear equations with small parameter They allow one to match asymptotics of various properties with each other in transition regions and to get unified formulas for connection of characteristic parameters of approximate solutions This approach underlies modern asymptotic methods and gives a deep insight into crucial nonlinear phenomena These are beginnings of chaos in dynamical systems incipient solitary and shock waves oscillatory processes in crystals engineering constructions and quantum systems Apart from independent interest the approximate solutions serve as a foolproof basis for testing numerical algorithms The second volume will be related to partial differential equations

Backpacker, 2001-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

Applied Mechanics Reviews, 1966

*Torsors, Étale Homotopy and Applications to Rational Points* Alexei N. Skorobogatov, 2013-04-18 Torsors also known as principal bundles or principal homogeneous spaces are ubiquitous in mathematics The purpose of this book is to present expository lecture notes and cutting edge research papers on the theory and applications of torsors and étale homotopy all written from different perspectives by leading experts Part one of the book contains lecture notes on recent uses of torsors in geometric invariant theory and representation theory plus an introduction to the étale homotopy theory of Artin and Mazur Part two of the book features a milestone paper on the étale homotopy approach to the arithmetic of rational points Furthermore the reader will find a collection of research articles on algebraic groups and homogeneous spaces rational and K3 surfaces geometric invariant theory rational points descent and the Brauer Manin obstruction Together these give a state of the art view of a broad area at the crossroads of number theory and algebraic geometry

Symmetries and Groups in Contemporary Physics Chengming Bai, 2013 This volume focuses on developments in the field of group theory in its broadest sense and is of interest to theoretical and experimental physicists mathematicians and scientists in related

disciplines who are interested in the latest methods and applications In an increasingly ultra specialized world this volume will demonstrate the interchange of ideas and methods in theoretical and mathematical physics     **The Fascination of Probability, Statistics and their Applications** Mark Podolskij,Robert Stelzer,Steen Thorbjørnsen,Almut E. D.

Veraart,2015-12-26 Collecting together twenty three self contained articles this volume presents the current research of a number of renowned scientists in both probability theory and statistics as well as their various applications in economics finance the physics of wind blown sand queueing systems risk assessment turbulence and other areas The contributions are dedicated to and inspired by the research of Ole E Barndorff Nielsen who since the early 1960s has been and continues to be a very active and influential researcher working on a wide range of important problems The topics covered include but are not limited to econometrics exponential families L vy processes and infinitely divisible distributions limit theory mathematical finance random matrices risk assessment statistical inference for stochastic processes stochastic analysis and optimal control time series and turbulence The book will be of interest to researchers and graduate students in probability statistics and their applications     **Infants and Children** Laura E. Berk,2022-07-26 In the Ninth Edition of Infants and Children Prenatal Through Middle Childhood renowned professor researcher and author Laura E Berk takes an integrated approach to presenting development in the physical cognitive emotional and social domains emphasizing the complex interchanges between heredity and environment providing exceptional multicultural and cross cultural focus and offering research based practical applications that students can relate to their personal and professional lives     **Fluid-Structure Interaction and Biomedical Applications** Tomáš Bodnár,Giovanni P. Galdi,Šárka Nečasová,2014-10-13 This book presents in a methodical way updated and comprehensive descriptions and analyses of some of the most relevant problems in the context of fluid structure interaction FSI Generally speaking FSI is among the most popular and intriguing problems in applied sciences and includes industrial as well as biological applications Various fundamental aspects of FSI are addressed from different perspectives with a focus on biomedical applications More specifically the book presents a mathematical analysis of basic questions like the well posedness of the relevant initial and boundary value problems as well as the modeling and the numerical simulation of a number of fundamental phenomena related to human biology These latter research topics include blood flow in arteries and veins blood coagulation and speech modeling We believe that the variety of the topics discussed along with the different approaches used to address and solve the corresponding problems will help readers to develop a more holistic view of the latest findings on the subject and of the relevant open questions For the same reason we expect the book to become a trusted companion for researchers from diverse disciplines such as mathematics physics mathematical biology bioengineering and medicine     **Augmentation of Brain Function: Facts, Fiction and Controversy** Manuel F. Casanova,Mikhail Lebedev,Ioan Opris ,2018-09-14 The final volume in this tripartite series on Brain Augmentation is entitled From Clinical Applications to Ethical Issues and Futuristic Ideas Many of the articles within this volume deal with translational efforts taking the results of

experiments on laboratory animals and applying them to humans In many cases these interventions are intended to help people with disabilities in such a way so as to either restore or extend brain function Traditionally therapies in brain augmentation have included electrical and pharmacological techniques In contrast some of the techniques discussed in this volume add specificity by targeting select neural populations This approach opens the door to where and how to promote the best interventions Along the way results have empowered the medical profession by expanding their understanding of brain function Articles in this volume relate novel clinical solutions for a host of neurological and psychiatric conditions such as stroke Parkinson s disease Huntington s disease epilepsy dementia Alzheimer s disease autism spectrum disorders ASD traumatic brain injury and disorders of consciousness In disease symptoms and signs denote a departure from normal function Brain augmentation has now been used to target both the core symptoms that provide specificity in the diagnosis of a disease as well as other constitutional symptoms that may greatly handicap the individual The volume provides a report on the use of repetitive transcranial magnetic stimulation rTMS in ASD with reported improvements of core deficits i e executive functions TMS in this regard departs from the present day trend towards symptomatic treatment that leaves unaltered the root cause of the condition In diseases such as schizophrenia brain augmentation approaches hold promise to avoid lengthy pharmacological interventions that are usually riddled with side effects or those with limiting returns as in the case of Parkinson s disease Brain stimulation can also be used to treat auditory verbal hallucination visuospatial hemispatial neglect and pain in patients suffering from multiple sclerosis The brain acts as a telecommunication transceiver wherein different bandwidth of frequencies brainwave oscillations transmit information Their baseline levels correlate with certain behavioral states The proper integration of brain oscillations provides for the phenomenon of binding and central coherence Brain augmentation may foster the normalization of brain oscillations in nervous system disorders These techniques hold the promise of being applied remotely under the supervision of medical personnel thus overcoming the obstacle of travel in order to obtain healthcare At present traditional thinking would argue the possibility of synergism among different modalities of brain augmentation as a way of increasing their overall effectiveness and improving therapeutic selectivity Thinking outside of the box would also provide for the implementation of brain to brain interfaces where techniques proper to artificial intelligence could allow us to surpass the limits of natural selection or enable communications between several individual brains sharing memories or even a global brain capable of self organization Not all brains are created equal Brain stimulation studies suggest large individual variability in response that may affect overall recovery treatment or modify desired effects of a given intervention The subject s age gender hormonal levels may affect an individual s cortical excitability In addition this volume discusses the role of social interactions in the operations of augmenting technologies Finally augmenting methods could be applied to modulate consciousness even though its neural mechanisms are poorly understood Finally this volume should be taken as a debate on social moral and ethical issues on neurotechnologies Brain enhancement may transform the

individual into someone or something else These techniques bypass the usual routes of accommodation to environmental exigencies that exalted our personal fortitude learning exercising and diet This will allow humans to preselect desired characteristics and realize consequent rewards without having to overcome adversity through more laborious means The concern is that humans may be playing God and the possibility of an expanding gap in social equity where brain enhancements may be selectively available to the wealthier individuals These issues are discussed by a number of articles in this volume Also discussed are the relationship between the diminishment and enhancement following the application of brain augmenting technologies the problem of mind control with BMI technologies free will the duty to use cognitive enhancers in high responsibility professions determining the population of people in need of brain enhancement informed public policy cognitive biases and the hype caused by the development of brain augmenting approaches

**Insect Pests of Potato** Andrei Alyokhin, Silvia I Rondon, Yulin Gao, 2022-03-17 This fully revised and updated second edition of *Insect Pests of Potato* now includes an opening section with a basic overview of agronomic and economic issues as they relate to potato production It also features a new section that reviews potato production as well as problems caused by insect pests and solutions to these problems in all major potato growing regions of the world Further a new section discusses theoretical foundations of potato pest management and includes chapters on ecological theory evolutionary theory and a case study on their applications to elucidate differences between Eastern and Western populations of Colorado potato beetle in North America There is also a new chapter on the foundations of integrated pest management and their applications in controlling insect pests The sections on the biology of main pests and on control methods now feature the latest information including emphasis on recent advances in molecular biology and genomics Information on the use of dsRNA technology for pest control is also included as are new chapters on potato ladybirds and on hemipterous pests other than aphids and psyllids This second edition provides improved integration and logical connections among chapters and expanded geographic scope of coverage making it the ideal reference on the topic Fully revised and updated with new sections on potato growing regions and theoretical foundations of potato pest management using ecological theory evolutionary theory and relevant case study insights Contains improved integration and logical connections among chapters expanded geographic scope of coverage and scientific advances Emphasizes recent advances in molecular biology and genomics including the use of dsRNA technology for pest control

**Backpacker**, 2001-03 *Backpacker* brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure *Backpacker* is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish *Backpacker's* Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

**Current Air Quality Issues** Farhad Nejadkoorki, 2015-10-21 Air pollution is thus far one of the key environmental issues in urban areas

Comprehensive air quality plans are required to manage air pollution for a particular area. Consequently, air should be continuously sampled, monitored, and modeled to examine different action plans. Reviews and research papers describe air pollution in five main contexts: Monitoring, Modeling, Risk Assessment, Health, and Indoor Air Pollution. The book is recommended to experts interested in health and air pollution issues. **Directory of British Scientists**, 1966

*Complexity, Chaos, and Biological Evolution* Erik Mosekilde, Lis Mosekilde, 2013-03-08. From time to time, perhaps a few times each century, a revolution occurs that questions some of our basic beliefs and sweeps across otherwise well-guarded disciplinary boundaries. These are the periods when science is fun when new paradigms have to be formulated and when young scientists can do serious work without first having to acquire all the knowledge of their teachers. The emergence of nonlinear science appears to be one such revolution. In a surprising manner, this new science has disclosed a number of misconceptions in our traditional understanding of determinism. In particular, it has been shown that the notion of predictability, according to which the trajectory of a system can be precisely determined if one knows the equations of motion and the initial conditions, is related to textbook examples of simple integrable systems. This predictability does not extend to nonlinear conservative systems in general. Dissipative systems can also show unpredictability provided that the motion is sustained by externally supplied energy and/or resources. These discoveries and the associated discovery that even relatively simple nonlinear systems can show extremely complex behavior have brought about an unprecedented feeling of common interest among scientists from many different disciplines. During the last decade or two, we have come to understand that there are universal routes to chaos; we have learned about stretching and folding; and we have discovered the beautiful fractal geometry underlying chaotic attractors. 科学出版社, 2021-01-13. Ashton Applewhite, "This Chair Rocks: Yo Is This Ageist?" TED Next Avenue, 228arthurlin@gmail.com. **Science Citation Index**, 1994. Vols for 1964 have guides and journal lists.

**Mathematics HL and SL with HL Options** Peter Smythe, 2013-07-12. This comprehensive and concise text is ideal for use with the International Baccalaureate Mathematics HL/SL courses in a clear and easy-to-use format. The author has developed this text after many years of teaching and examining IB Mathematics. This 2006/13 Edition of Mathematics HL/SL has been written specifically for the International Baccalaureate Syllabuses for students taking exams until November 2013. Students taking exams in May 2014 or later should buy the 2012/19 Edition instead of this one. The HL Options of Statistics and Probability, Set Relations and Groups and Series, and Differential Equations are included. In each chapter, the information relative to the topic is discussed, and several examples providing various approaches to the solutions are given. The exercises provided with each section have been carefully graded from the relatively easy to the more difficult. Answers to all odd-numbered questions and some even-numbered ones are provided. The required outcomes are featured at the end of each chapter.



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