



2. 1) Answer **any one** of the following questions :

6

- a) Given an 8x8 chessboard, how many squares of all sizes are there on it ?
- b) Give a combinatorial proof of the identity :

$$\sum_{k=0}^r \binom{m}{k} \binom{n}{r-k} = \binom{m+n}{r}$$

2) Answer **any two** of the following questions :

10

- a) How many n -digit ternary $(0, 1, 2)$ sequences are there with at least one 0, at least one 1 and at least one 2 ?
- b) Solve the recurrence relation :
 $a_n = 3a_{n-1} + 4a_{n-2}$ for $n \geq 2$ and $a_0 = 1, a_1 = 3$.
- c) Suppose the numbers 1 through 10 are randomly positioned around a circle. Show that the sum of some set of three consecutive numbers must be at least 17.

3. 1) Answer **any one** of the following questions :

8

- a) Let A_1, A_2, \dots, A_n be n sets in a universe U of N elements. Let S_k denote the sum of the sizes of all k -tuple intersections of the A_i s. Prove that

$$N(\overline{A_1} \overline{A_2} \dots \overline{A_n}) = N - S_1 + S_2 - S_3 + \dots + (-1)^n S_n.$$

- b) Find a recurrence relation for the number a_n of ternary sequences of length n that contain 2 consecutive digits that are the same. What are the initial conditions ? Find a_4 .

2) Answer **any one** of the following questions :

8

- a) Derive iterative formula to generate n uniformly spaced points on the circumference of the circle :

$$(x - a)^2 + (y - b)^2 = r^2$$

- b) Write an algorithm for reflection through an arbitrary plane in space.

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Sabine Zange



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Immune system modeling and analysis Ramit Mehr,Miles Davenport,2015-04-22 The rapid development of new methods for immunological data collection from multicolor flow cytometry through single cell imaging to deep sequencing presents us now for the first time with the ability to analyze and compare large amounts of immunological data in health aging and disease The exponential growth of these datasets however challenges the theoretical immunology community to develop methods for data organization and analysis Furthermore the need to test hypotheses regarding immune function and

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Application of Optimization in Production, Logistics, Inventory, Supply Chain Management and Block Chain Biswajit Sarkar, Mitali Sarkar, 2020-04-23. The evolution of industrial development since the 18th century is now experiencing the fourth industrial revolution. The effect of the development has propagated into almost every sector of the industry. From inventory to the circular economy, the effectiveness of technology has been fruitful for industry. The recent trends in research with new ideas and methodologies are included in this book. Several new ideas and business strategies are developed in the area of the supply chain management, logistics optimization and forecasting for the improvement of the economy of the society and the environment. The proposed technologies and ideas are either novel or help modify several other new ideas. Different real life problems with different dimensions are discussed in the book so that readers may connect with the recent issues in society and industry. The collection of the articles provides a glimpse into the new research trends in technology, business and the environment.

Mathematics Education from an Asian Perspective (Penerbit USM) Lim Chap Sam, Chew Cheng Meng, Sriraman Bharath, 2020. This book presents an exceptional collection of 11 articles on contemporary research studies that address current and critical issues of researches, theories and practices in the fields of mathematics education at various levels from primary to tertiary education. In addition, the book covers various innovative research studies from both local and abroad such as cognitive diagnostic assessment (CDA) and assessment for learning (AfL), teaching and learning of mathematics using the dynamic geometry software (DGS), action process object schema (APOS) theory and relationship mapping and inverse RMI principle as well as mathematics lesson structure (MLS) and collaborative lesson research (CLR). The contents of this book should be of interest to both national and international researchers and scholars, particularly mathematics educators, mathematics education researchers, teacher trainers, university students, teachers, curriculum planners as well as policymakers.

UGC-NET/SET: Education (Paper II & III) JRF and Assistant Professor Exam Guide High Definition Books, **Econometrics of Risk** Van-Nam Huynh, Vladik Kreinovich, Songsak Sriboonchitta, Komsan Suriya, 2014-12-15.

This edited book contains several state-of-the-art papers devoted to econometrics of risk. Some papers provide theoretical analysis of the corresponding mathematical, statistical, computational and economical models. Other papers describe applications of the novel risk-related econometric techniques to real life economic situations. The book presents new methods developed just recently in particular methods using non

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Numerical Mathematics and Advanced Applications ENUMATH 2017 Florin Adrian Radu, Kundan Kumar, Inga Berre, Jan Martin Nordbotten, Iuliu Sorin Pop, 2019-01-05 This book collects many of the presented papers as plenary presentations mini symposia invited presentations or contributed talks from the European Conference on Numerical Mathematics and Advanced Applications ENUMATH 2017 The conference was organized by the University of Bergen Norway from September 25 to 29 2017 Leading experts in the field presented the latest results and ideas in the designing implementation and analysis of numerical algorithms as well as their applications to relevant societal problems ENUMATH is a series of conferences held every two years to provide a forum for discussing basic aspects and new trends in numerical mathematics and scientific and industrial applications These discussions are upheld at the highest level of international expertise The first ENUMATH conference was held in Paris in 1995 with successive conferences being held at various locations across Europe including Heidelberg 1997 Jyväskylä 1999 Ischia Porto 2001 Prague 2003 Santiago de Compostela 2005 Graz 2007 Uppsala 2009 Leicester 2011 Lausanne 2013 and Ankara 2015 Innovation and Technology Enhancing Mathematics Education Eleonora

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International Congress on Mathematical Education Sung Je Cho, 2015-07-16 This book comprises the full selected Regular Lectures from the Proceedings of the 12th International Congress on Mathematical Education ICME 12 which was held at COEX in Seoul Korea from July 8th to 15th 2012 ICME 12 brought together 4700 experts from 100 countries working to understand all of the intellectual and attitudinal challenges in the subject of mathematics education as a multidisciplinary research and practice These selected Regular Lectures present the work of fifty one prominent mathematics educators from all over the globe The Lectures cover a wide spectrum of topics themes and issues and aim to give direction to future research towards educational improvement in the teaching and learning of mathematics education This book is of particular interest to researchers teachers and curriculum developers in mathematics education

Practical Design Patterns for Teaching and Learning with Technology Yishay Mor, Harvey Mellor, Steven Warburton, Niall Winters, 2014-05-08 These are challenging times in which to be an educator The constant flow of innovation offers new opportunities to support learners in an environment of ever shifting demands Educators work as they have always done making the most of the resources at hand and dealing with constraints to provide experiences which foster growth This was John Dewey's ideal of education 80 years ago and it is still relevant today This view sees education as a practice that achieves its goals through creative processes involving both craft and design Craft is visible in the resources that educators produce and in their interactions with learners Design though is tacit and educators are often unaware of their own design practices The rapid pace of change is shifting the balance from craft to design requiring that educators design work become visible shareable and malleable The participatory patterns workshop is a method for doing this through engaging practitioners in collaborative reflection leading to the production of structured representations of design knowledge The editors have led many such workshops and this book is a record of that endeavour and its outcomes in the form of practical design narratives patterns and scenarios that can be used to address challenges in teaching and learning with technology

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