

संकलित परीक्षा - I, 2014

SUMMATIVE ASSESSMENT - I, 2014

गणित / MATHEMATICS

कक्षा - X / Class - X

निर्धारित समय: 3 hours

अधिकतम अंक : 90

Time Allowed: 3 hours

Maximum Marks: 90

सामान्य निर्देश :

1. सभी प्रश्न अनिवार्य हैं।
2. इस प्रश्न पत्र में 31 प्रश्न हैं, जिन्हें चार खण्डों अ, ब, स तथा द में बांटा गया है। खण्ड-अ में 4 प्रश्न हैं जिनमें प्रत्येक 1 अंक का है; खण्ड-ब में 6 प्रश्न हैं जिनमें प्रत्येक के 2 अंक हैं; खण्ड-स में 10 प्रश्न हैं जिनमें प्रत्येक के 3 अंक हैं; तथा खण्ड-द में 11 प्रश्न हैं जिनमें प्रत्येक के 4 अंक हैं।

# Paper 1 H Math A 2014

**Shuanggen Jin, Riccardo Barzaghi**



## **Paper 1 H Math A 2014:**

**Collected Papers. Volume VIII** Florentin Smarandache, 2022-04-01 This eighth volume of Collected Papers includes 75 papers comprising 973 pages on theoretic and applied neutrosophics written between 2010 2022 by the author alone or in collaboration with the following 102 co authors alphabetically ordered from 24 countries Mohamed Abdel Basset Abdullah Gamal Firoz Ahmad Ahmad Yusuf Adhami Ahmed B Al Nafee Ali Hassan Mumtaz Ali Akbar Rezaei Assia Bakali Ayoub Bahasse Azeddine Elhassouny Durga Banerjee Romualdas Bausys Mircea Bo coianu Traian Alexandru Buda Bui Cong Cuong Emilia Calefariu Ahmet evik Chang Su Kim Victor Christianto Dae Wan Kim Daud Ahmad Arindam Dey Partha Pratim Dey Mamouni Dhar H A Elagamy Ahmed K Essa Sudipta Gayen Bibhas C Giri Daniela G fu Noel Batista Hern ndez Hojjatollah Farahani Huda E Khalid Irfan Deli Saeid Jafari T m t p Gb l h n Ja y ol Sri Pati Jha Sudan Jha Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi M Karthika Kawther F Alhasan Giruta Kazakeviciute Januskeviciene Qaisar Khan Kishore Kumar P K Prem Kumar Singh Ranjan Kumar Maikel Leyva V zquez Mahmoud Ismail Tahir Mahmood Hafsa Masood Malik Mohammad Abobala Mai Mohamed Gunasekaran Manogaran Seema Mehra Kalyan Mondal Mohamed Talea Mullai Murugappan Muhammad Akram Muhammad Aslam Malik Muhammad Khalid Mahmood Nivetha Martin Durga Nagarajan Nguyen Van Dinh Nguyen Xuan Thao Lewis Nkenyereya Jagan M Obbineni M Parimala S K Patro Peide Liu Pham Hong Phong Surapati Pramanik Gyanendra Prasad Joshi Quek Shio Gai R Radha A A Salama S Satham Hussain Mehmet ahin Said Broumi Ganeshsree Selvachandran Selvaraj Ganesan Shahbaz Ali Shouzen Zeng Manjeet Singh A Stanis Arul Mary Dragi a Stanujki Yusuf uba Rui Pu Tan Mirela Teodorescu Sel uk Topal Zenonas Turskis Vakkas Ulu ay Norberto Valc rcel Izquierdo V Venkateswara Rao Volkan Duran Ying Li Young Bae Jun Wadei F Al Omeri Jian qiang Wang Lihshing Leigh Wang Edmundas Kazimieras Zavadskas

**Collected Papers. Volume IX** Florentin Smarandache, 2022-05-10 This ninth volume of Collected Papers includes 87 papers comprising 982 pages on Neutrosophic Theory and its applications in Algebra written between 2014 2022 by the author alone or in collaboration with the following 81 co authors alphabetically ordered from 19 countries E O Adeleke A A A Agboola Ahmed B Al Nafee Ahmed Mostafa Khalil Akbar Rezaei S A Akinleye Ali Hassan Mumtaz Ali Rajab Ali Borzooei Assia Bakali Cenap zel Victor Christianto Chunxin Bo Rakhal Das Bijan Davvaz R Dhavaseelan B Elavarasan Fahad Alsharari T Gharibah Hina Gulzar Hashem Bordbar Le Hoang Son Emmanuel Ilojide T m t p Gb l h n Ja y ol M Karthika Ilanthenral Kandasamy W B Vasantha Kandasamy Huma Khan Madad Khan Mohsin Khan Hee Sik Kim Seon Jeong Kim Valeri Kromov R M Latif Madeleine Al Tahan Mehmat Ali Ozturk Minghao Hu S Mirvakili Mohammad Abobala Mohammad Hamidi Mohammed Abdel Sattar Mohammed A Al Shumrani Mohamed Talea Muhammad Akram Muhammad Aslam Muhammad Aslam Malik Muhammad Gulistan Muhammad Shabir G Muhiuddin Memudu Olaposi Olatinwo Osman Anis Choonkil Park M Parimala Ping Li K Porselvi D Preethi S Rajareega N Rajesh Udhayakumar Ramalingam Riad K Al Hamido Yaser Saber Arsham Borumand Saeid Saeid Jafari Said Broumi A A Salama Ganeshsree Selvachandran Songtao Shao Seok Zun Song

Tahsin Oner M Mohseni Takallo Binod Chandra Tripathy Tugce Katican J Vimala Xiaohong Zhang Xiaoyan Mao Xiaoying Wu Xingliang Liang Xin Zhou Yingcang Ma Young Bae Jun Juanjuan Zhang **IGFS 2014** Shuanggen Jin, Riccardo Barzaghi, 2017-02-17 This volume contains the proceedings of 24 peer reviewed papers presented at the 3rd International Gravity Field Service IGFS General Assembly which was organized by the International Gravity Field Service IGFS Commission 2 of the International Association of Geodesy IAG and Shanghai Astronomical Observatory SHAO Chinese Academy of Sciences The Assembly was successfully held in Shanghai China from June 30th to July 6th 2014 with over 130 participants from 25 countries The focus of the Assembly is on methods for observing estimating and interpreting the Earth gravity field as well as its applications including 6 sessions gravimetry and gravity networks global geopotential models and vertical datum unification local geoid gravity modelling satellite gravimetry mass movements in the Earth system and solid Earth investigations **CTET & TETs Previous Years Papers Class (1 to 5) Paper-1 2021** Arihant Experts, 2021-07-28 1 The book is complete practice capsule for CTET and TETs Entrances 2 This practice capsule deals with Paper 1 for classes 1 to 5 3 Covers Previous Years Questions 2021 2013 of various Teaching Entrances 4 More than 3000 Questions are provided for practice 5 Well detailed answers help to understand the concepts Central Teacher Eligibility Test CTET or Teacher Eligibility Test TET are the national level teaching entrance exams that recruit eligible candidates as teacher who are willing to make their careers in the stream of teaching at Central or State Government Schools Prepared under National curriculum pattern the current edition of CTET TETs Previous Years Solved Papers Paper 1 for Class 1 5 is a complete practice package for teaching entrances This book covers all the previous years questions 2021 2013 providing complete detailed explanations of each question It has more than 3000 Questions that are asked in various Teaching Entrances that promote self evaluation by enabling not just practicing and revising concepts but also to keep track of self progress Well detailed answers help students to win over doubt and fears associated with exam Preparation done from this book proves to be highly useful for CTET TET Paper I in achieving good rank **TABLE OF CONTENT** Solved Paper 2021 2013 *A Panorama of Mathematics: Pure and Applied* Carlos M. da Fonseca, Dinh Van Huynh, Steve Kirkland, Vu Kim Tuan, 2016-02-26 This volume contains the proceedings of the Conference on Mathematics and its Applications 2014 held from November 14 17 2014 at Kuwait University Safat Kuwait Papers contained in this volume cover various topics in pure and applied mathematics ranging from an introductory study of quotients and homomorphisms of C systems also known as contextual pre categories to the most important consequences of the so called Fokas method Also covered are multidisciplinary topics such as new structural and spectral matricial results acousto electromagnetic tomography method a recent hybrid imaging technique some numerical aspects of sonic boom minimization PDE eigenvalue problems von Neumann entropy in graph theory the relative entropy method for hyperbolic systems conductances on grids inverse problems in magnetohydrodynamics location and size estimation of small rigid bodies using elastic far fields and the space time fractional Schrödinger equation just to cite a few

Papers contained in this volume cover various topics in pure and applied mathematics ranging from an introductory study of quotients and homomorphisms of C systems also known as contextual pre categories to the most important consequences of the so called Fokas method Also covered are multidisciplinary topics such as new structural and spectral matricial results acousto electromagnetic tomography method a recent hybrid imaging technique some numerical aspects of sonic boom minimization PDE eigenvalue problems von Neumann entropy in graph theory the relative entropy method for hyperbolic systems conductances on grids inverse problems in magnetohydrodynamics location and size estimation of small rigid bodies using elastic far fields and the space time fractional Schrödinger equation just to cite a few See more at <http://s350148651-preview.tizrapublisher.com/conm/658/sthash/74nRhV3y.dpuf> This volume contains the proceedings of the Conference on Mathematics and its Applications 2014 held from November 14-17 2014 at Kuwait University Safat Kuwait See more at <http://s350148651-preview.tizrapublisher.com/conm/658/sthash/74nRhV3y.dpuf>

**Mathematics Teaching and Professional**

**Learning in sub-Saharan Africa** Kakoma Luneta, 2021-12-09 The book represents a crop of wide ranging research conducted by renowned scholars in sub-Saharan Africa revolving around mathematics teaching and professional development programs for mathematics teachers The research based proposals and actual how to conduct professional development initiatives that enhance effective mathematics instruction are rooted in teacher input and informed by learners errors and misconceptions The book provides a comprehensive snapshot on mathematics teaching learning and effective professional development programmes for mathematics teachers in sub-Saharan Africa It is the only research output that advances and disseminates issues of mathematics education and research in the region with input from South Africa Kenya Rwanda Uganda Malawi Namibia Lesotho Ethiopia and Zimbabwe

**Neutrosophic Sets and Systems, Vol. VII** Florentin Smarandache, Mumtaz Ali, 2015-02-01 Twelve papers on soft interval valued neutrosophic rough sets fuzzy neutrosophic relation equations with geometric programming rough neutrosophic multi attribute decision making classes of neutrosophic crisp nearly open sets and possible application to GIS topology neutrosophic probability in physics and similar topics Contributors H E Khalid K Mondal S Pramanik A A Salama S Broumi F Smarandache F Yuhua M Ali M Shabir V Patrascu S Ye J Fu J Ye A Hussain and L Vladareanu

**Low Dimensional Topology and Number Theory** Masanori Morishita, Hiroaki Nakamura, Jun Ueki, 2025-03-02 This book is the result of research initiatives formed during the workshop Low Dimensional Topology and Number Theory XIII at Kyushu University in 2022 It is also dedicated to the memory of Professor Toshie Takata who has been a main figure of the session chairs for the series of annual workshops since 2009 The activity was aimed at understanding and deepening recent developments of lively and fruitful interactions between low dimensional topology and number theory over the past decades In this volume of proceedings the reader will find research papers as well as survey articles including open problems at the interface between classical and quantum topology and algebraic and analytic number theory written by leading experts and active researchers in the respective fields Topics include among others the strong

slope conjecture Kashiwara Vergne Lie algebra braids and fibered double branched covers of 3 manifolds Temperley Lieb Jones category and conformal blocks WRT invariants and false theta functions the colored Jones polynomial of the figure eight knot potential functions and A polynomials l adic Galois polylogarithms Dijkgraaf Witten invariants in Bloch groups analogies between knots and primes in arithmetic topology normalized Jones polynomials for rational links Iwasawa main conjecture Weber's class number problem The book provides a valuable resource for researchers and graduate students interested in topics related to both low dimensional topology and number theory

**Fractional Calculus** Praveen Agarwal, Dumitru Baleanu, YangQuan Chen, Shaher Momani, José António Tenreiro Machado, 2019-11-23 This book collects papers presented at the International Conference on Fractional Differentiation and its Applications ICFDA held at the University of Jordan Amman Jordan on 16-18 July 2018 Organized into 13 chapters the book discusses the latest trends in various fields of theoretical and applied fractional calculus Besides an essential mathematical interest its overall goal is a general improvement of the physical world models for the purpose of computer simulation analysis design and control in practical applications It showcases the development of fractional calculus as an acceptable tool for a large number of diverse scientific communities due to more adequate modeling in various fields of mechanics electricity chemistry biology medicine economics control theory as well as signal and image processing The book will be a valuable resource for graduate students and researchers of mathematics and engineering

*Iterative Methods for Solving Nonlinear Equations and Systems* Juan R. Torregrosa, Alicia Cordero, Fazlollah Soleymani, 2019-12-06 Solving nonlinear equations in Banach spaces real or complex nonlinear equations nonlinear systems and nonlinear matrix equations among others is a non trivial task that involves many areas of science and technology Usually the solution is not directly affordable and require an approach using iterative algorithms This Special Issue focuses mainly on the design analysis of convergence and stability of new schemes for solving nonlinear problems and their application to practical problems Included papers study the following topics Methods for finding simple or multiple roots either with or without derivatives iterative methods for approximating different generalized inverses real or complex dynamics associated to the rational functions resulting from the application of an iterative method on a polynomial Additionally the analysis of the convergence has been carried out by means of different sufficient conditions assuring the local semilocal or global convergence This Special issue has allowed us to present the latest research results in the area of iterative processes for solving nonlinear equations as well as systems and matrix equations In addition to the theoretical papers several manuscripts on signal processing nonlinear integral equations or partial differential equations reveal the connection between iterative methods and other branches of science and engineering

**Neutrosophic Sets and Systems, vol. 7/2015** H. E. Khalid, K. Mondal, S. Pramanik, A. A. Salama, S. Broumi, F. Smarandache, F. Yuhua, M. Ali, V. Patrascu, M. Shabir, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field

such as the neutrosophic structures developed in algebra geometry topology etc      Recent Trends in Combinatorics Andrew Beveridge, Jerrold R. Griggs, Leslie Hogben, Gregg Musiker, Prasad Tetali, 2016-04-12 This volume presents some of the research topics discussed at the 2014 2015 Annual Thematic Program Discrete Structures Analysis and Applications at the Institute for Mathematics and its Applications during Fall 2014 when combinatorics was the focus Leading experts have written surveys of research problems making state of the art results more conveniently and widely available The three part structure of the volume reflects the three workshops held during Fall 2014 In the first part topics on extremal and probabilistic combinatorics are presented part two focuses on additive and analytic combinatorics and part three presents topics in geometric and enumerative combinatorics This book will be of use to those who research combinatorics directly or apply combinatorial methods to other fields      **Graph Theory** Ralucca Gera, Teresa W. Haynes, Stephen T.

Hedetniemi, 2018-10-26 This second volume in a two volume series provides an extensive collection of conjectures and open problems in graph theory It is designed for both graduate students and established researchers in discrete mathematics who are searching for research ideas and references Each chapter provides more than a simple collection of results on a particular topic it captures the reader's interest with techniques that worked and failed in attempting to solve particular conjectures The history and origins of specific conjectures and the methods of researching them are also included throughout this volume Students and researchers can discover how the conjectures have evolved and the various approaches that have been used in an attempt to solve them An annotated glossary of nearly 300 graph theory parameters 70 conjectures and over 600 references is also included in this volume This glossary provides an understanding of parameters beyond their definitions and enables readers to discover new ideas and new definitions in graph theory The editors were inspired to create this series of volumes by the popular and well attended special sessions entitled My Favorite Graph Theory Conjectures which they organized at past AMS meetings These sessions were held at the winter AMS MAA Joint Meeting in Boston January 2012 the SIAM Conference on Discrete Mathematics in Halifax in June 2012 as well as the winter AMS MAA Joint Meeting in Baltimore in January 2014 at which many of the best known graph theorists spoke In an effort to aid in the creation and dissemination of conjectures and open problems which is crucial to the growth and development of this field the editors invited these speakers as well as other experts in graph theory to contribute to this series      **Fractional Differential**

**Equations** Juan J. Nieto, Rosana Rodríguez-López, 2019-11-19 Fractional calculus provides the possibility of introducing integrals and derivatives of an arbitrary order in the mathematical modelling of physical processes and it has become a relevant subject with applications to various fields such as anomalous diffusion propagation in different media and propagation in relation to materials with different properties However many aspects from theoretical and practical points of view have still to be developed in relation to models based on fractional operators This Special Issue is related to new developments on different aspects of fractional differential equations both from a theoretical point of view and in terms of

applications in different fields such as physics chemistry or control theory for instance The topics of the Issue include fractional calculus the mathematical analysis of the properties of the solutions to fractional equations the extension of classical approaches or applications of fractional equations to several fields      *Implementation and Critical Assessment of the Flipped Classroom Experience* Scheg, Abigail G.,2015-01-31 In the past decade traditional classroom teaching models have been transformed in order to better promote active learning and learner engagement Implementation and Critical Assessment of the Flipped Classroom Experience seeks to capture the momentum of non traditional teaching methods and provide a necessary resource for individuals who are interested in taking advantage of this pedagogical endeavor Using narrative explanations and foundation materials provided by experienced instructors this premier reference work presents the benefits and challenges of flipped methodology implementation in today s classroom to educators and educational administrators across all disciplines and levels      **Collected Papers. Volume XII** Florentin Smarandache,2022-08-01 This twelfth volume of Collected Papers includes 86 papers comprising 976 pages on Neutrosophics Theory and Applications published between 2013 2021 in the international journal and book series Neutrosophic Sets and Systems by the author alone or in collaboration with the following 112 co authors alphabetically ordered from 21 countries Abdel Nasser H Zaied Muhammad Akram Bobin Albert S A Alblowi S Anitha Guennoun Asmae Assia Bakali Ayman M Manie Abdul Sami Awan Azeddine Elhassouny Erick Gonz lez Caballero D Dafik Mithun Datta Arindam Dey Mamouni Dhar Christopher Dyer Nur Ain Ebas Mohamed Eisa Ahmed K Essa Faruk Karaaslan Jo o Alcione Sganderla Figueiredo Jorge Fernando Goyes Garc a N Ramila Gandhi Sudipta Gayen Gustavo Alvarez G mez Sharon Dinarza lvarez G mez Haitham A El Ghareeb Hamiden Abd El Wahed Khalifa Masooma Raza Hashmi Ibrahim M Hezam German Acurio Hidalgo Le Hoang Son R Jahir Hussain S Satham Hussain Ali Hussein Mahmood Al Obaidi Hays Hatem Imran Nabeela Ishfaq Saeid Jafari R Jansi V Jeyanthi M Jeyaraman Sripathi Jha Jun Ye W B Vasanth Kandasamy Abdullah Karg n J Kavikumar Kawther Fawzi Hamza Alhasan Huda E Khalid Neha Andalleb Khalid Mohsin Khalid Madad Khan D Koley Valeri Kroumov Manoranjan Kumar Singh Pavan Kumar Prem Kumar Singh Ranjan Kumar Malayalan Lathamaheswari A N Mangayarkkarasi Carlos Rosero Mart nez Marvelio Alfaro Matos Mai Mohamed Nivetha Martin Mohamed Abdel Basset Mohamed Talea K Mohana Muhammad Irfan Ahamad Rana Muhammad Zulqarnain Muhammad Riaz Muhammad Saeed Muhammad Saqlain Muhammad Shabir Muhammad Zeeshan Anjan Mukherjee Mumtaz Ali Deivanayagampillai Nagarajan Iqra Nawaz Munazza Naz Roan Thi Ngan Necati Olgun Rodolfo Gonz lez Ortega P Pandiammal I Pradeepa R Princy Marcos David Oviedo Rodr guez Jes s Estupi n Ricardo A Rohini Sabu Sebastian Abhijit Saha Mehmet ahin Said Broumi Saima Anis A A Salama Ganeshsree Selvachandran Seyed Ahmad Edalatpanah Sajana Shaik Soufiane Idbrahim S Sowndrarajan Mohamed Talea Ruipu Tan Chalapathi Tekuri Sel uk Topal S P Tiwari Vakkas Ulu ay Maikel Leyva V zquez Chinnadurai Veerappan M Venkatachalam Luige Vl d reanu tefan Vl du escu Young Bae Jun Wadei F Al Omeri Xiao Long Xin      *Creativity and Technology in Mathematics Education* Viktor



Freiman, Janet Lynne Tassell, 2018-09-03 This volume provides new insights on creativity while focusing on innovative methodological approaches in research and practice of integrating technological tools and environments in mathematics teaching and learning This work is being built on the discussions at the mini symposium on Creativity and Technology at the International Conference on Mathematical Creativity and Giftedness ICMCG in Denver USA 2014 and other contributions to the topic The book emphasizes a diversity of views a variety of contexts angles and cultures of thought as well as mathematical and educational practices The authors of each chapter explore the potential of technology to foster creative and divergent mathematical thinking problem solving and problem posing creative use of dynamic multimodal and interactive software by teachers and learners as well as other digital media and tools while widening and enriching transdisciplinary and interdisciplinary connections in mathematics classroom Along with ground breaking innovative approaches the book aims to provide researchers and practitioners with new paths for diversification of opportunities for all students to become more creative and innovative mathematics learners A framework for dynamic learning conditions of leveraging mathematical creativity with technology is an outcome of the book as well

#### **Collected Papers. Volume VII** Florentin

Smarandache, 2022-02-01 This seventh volume of Collected Papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013 2021 by the author alone or in collaboration with the following 122 co authors from 22 countries Mohamed Abdel Basset Abdel Nasser Hussian C Alexander Mumtaz Ali Yaman Akbulut Amir Abdullah Amira S Ashour Assia Bakali Kousik Bhattacharya Kainat Bibi R N Boyd mit Budak Lulu Cai Cenap zel Chang Su Kim Victor Christianto Chunlai Du Chunxin Bo Rituparna Chutia Cu Nguyen Giap Dao The Son Vinayak Devvrat Arindam Dey Partha Pratim Dey Fahad Alsharari Feng Yongfei S Ganesan Shivam Ghildiyal Bibhas C Giri Masooma Raza Hashmi Ahmed Refaat Hawas Hoang Viet Long Le Hoang Son Hongbo Wang Hongnian Yu Mihaiela Iliescu Saeid Jafari Temitope Gbolahan Jaiyeola Naeem Jan R Jeevitha Jun Ye Anup Khan Madad Khan Salma Khan Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Kifayat Ullah Kishore Kumar P K Sujit Kumar De Prasun Kumar Nayak Malayalan Lathamaheswari Luong Thi Hong Lan Anam Luqman Luu Quoc Dat Tahir Mahmood Hafsa M Malik Nivetha Martin Mai Mohamed Parimala Mani Mingcong Deng Mohammed A Al Shumrani Mohammad Hamidi Mohamed Talea Kalyan Mondal Muhammad Akram Muhammad Gulistan Farshid Mofidnakhaei Muhammad Shoaib Muhammad Riaz Karthika Muthusamy Nabeela Ishfaq Deivanayagampillai Nagarajan Sumera Naz Nguyen Dinh Hoa Nguyen Tho Thong Nguyen Xuan Thao Noor ul Amin Dragan Pamur Gabrijela Popovi S Krishna Prabha Surapati Pramanik Priya R Qiaoyan Li Yaser Saber Said Broumi Saima Anis Saleem Abdullah Ganeshsree Selvachandran Abdulkadir Seng r Seyed Ahmad Edalatpanah Shahbaz Ali Shahzaib Ashraf Shouzen Zeng Shio Gai Quek Shuangwu Zhu Shumaiza Sidra Sayed Sohail Iqbal Songtao Shao Sundas Shahzadi Dragi a Stanujki eljko Stevi Udhayakumar Ramalingam Zunaira Rashid Hossein Rashmanlou Rajkumar Verma Luige Vl d reanu Victor Vl d reanu Desmond Jun Yi Tey Sel uk Topal Naveed Yaqoob Yanhui Guo Yee Fei Gan Yingcang Ma Young Bae Jun Yuping Lai

Hafiz Abdul Wahab Wei Yang Xiaohong Zhang Edmundas Kazimieras Zavadskas Lemnaouar Zedam **Discrete**

**Mathematics and Symmetry** Angel Garrido,2020-03-05 Some of the most beautiful studies in Mathematics are related to Symmetry and Geometry For this reason we select here some contributions about such aspects and Discrete Geometry As we know Symmetry in a system means invariance of its elements under conditions of transformations When we consider network structures symmetry means invariance of adjacency of nodes under the permutations of node set The graph isomorphism is an equivalence relation on the set of graphs Therefore it partitions the class of all graphs into equivalence classes The underlying idea of isomorphism is that some objects have the same structure if we omit the individual character of their components A set of graphs isomorphic to each other is denominated as an isomorphism class of graphs The automorphism of a graph will be an isomorphism from  $G$  onto itself The family of all automorphisms of a graph  $G$  is a permutation group

**Marshall Olkin Distributions - Advances in Theory and Applications** Umberto Cherubini,Fabrizio Durante,Sabrina Mulinacci,2015-06-01 This book presents the latest advances in the theory and practice of Marshall Olkin distributions These distributions have been increasingly applied in statistical practice in recent years as they make it possible to describe interesting features of stochastic models like non exchangeability tail dependencies and the presence of a singular component The book presents cutting edge contributions in this research area with a particular emphasis on financial and economic applications It is recommended for researchers working in applied probability and statistics as well as for practitioners interested in the use of stochastic models in economics This volume collects selected contributions from the conference Marshall Olkin Distributions Advances in Theory and Applications held in Bologna on October 2 3 2013

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