

16. $x + \frac{1}{x} = 2$ and $x - \frac{1}{x} = 2$

(a) Find the value of $(x + \frac{1}{x})^4$.

(b) Show that $\frac{x}{x^4 + 3x - 1} = \frac{1}{4}$.

(c) prove that $x^4 + \frac{1}{x^4} = x^2 + \frac{1}{x^2}$

[Challenger Round - 2019]

Solution:

(a) Given that,

$$x + \frac{1}{x} = 2$$

$$\Rightarrow \left(x + \frac{1}{x}\right)^4 = (2)^4 \quad [\text{squaring both sides}]$$

$$\therefore \left(x + \frac{1}{x}\right)^4 = 16$$

(b) Given that,

$$x - \frac{1}{x} = 2$$

$$\Rightarrow \frac{x^4 - 1}{x} = 2$$

$$\Rightarrow x^4 - 1 = 2x$$

$$\Rightarrow x^4 - 2x - 1 = 0$$

$$\Rightarrow x^4 + 3x - 1 = 4$$

$$\therefore x^4 + 3x - 1 = 4$$

We have to show $\frac{x}{x^4 + 3x - 1} = \frac{1}{4}$

Given that,

$$x^4 + \frac{1}{x^4} = x^2 + \frac{1}{x^2}$$

$$\frac{1}{x^4}$$

$$\left(\frac{1}{x}\right)^4 = 2 \times \frac{1}{x^2}$$

$$(2)^4 = 2$$

$$16 = 2$$

$$2$$

$$\frac{1}{x^4}$$

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**Robert M. Corless, Jürgen Gerhard, Ilias
S. Kotsireas**

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Scientific and Technical Aerospace Reports, 1989 *Parallel Processing and Applied Mathematics, Part II* Roman Wyrzykowski, Jack Dongarra, Konrad Karczewski, Jerzy Wasniewski, 2010-07-12 This book constitutes the proceedings of the 8th International Conference on Parallel Processing and Applied Mathematics PPAM 2009 held in Wroclaw Poland in September 2009 **Mobile Computing, Applications, and Services** Stephan Sigg, Petteri Nurmi, Flora Salim, 2016-01-13 This book constitutes the proceedings of the 7th International Conference on Mobile Computing Applications and Services MobiCASE 2015 held in Berlin Germany in November 2015 The 16 full and 4 poster papers were carefully reviewed and selected from 43 submissions and are presented together with 4 papers from the First Workshop on Situation Recognition by Mining Temporal Information SIREMETI 2015 The conference papers cover the following topics intelligent caching activity recognition and crowdsourcing mobile frameworks middleware interactive applications and mobility **Cellular Automata** Hiroshi Umeo, 2008-08-28 This book constitutes the refereed proceedings of the 8th International Conference on Cellular Automata for Research and Industry ACRI 2008 held in Yokohama Japan in September 2008 The 43 revised full papers and 22 revised poster papers presented together with 4 invited lectures were carefully reviewed and selected from 78 submissions The papers focus on challenging problems and new research not only in theoretical but application aspects of cellular automata including cellular automata tools and computational sciences The volume also contains 11 extended abstracts dealing with crowds and cellular automata which were presented during the workshop C CA 2008 The papers are organized in topical sections on CA theory and implementation computational theory physical modeling urban environmental and social modeling pedestrian and traffic flow modeling crypto and security system biology CA based hardware as well as crowds and cellular automata NASA's University Program Active Projects, 1981 *Algebraic and Geometric Methods in Discrete Mathematics* Heather A. Harrington, Mohamed Omar, Matthew Wright, 2017-03-16 This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Methods in Applied Discrete Mathematics held on January 11 2015 in San Antonio Texas The papers present connections between techniques from pure mathematics and various applications amenable to the analysis of discrete models encompassing applications of combinatorics topology algebra geometry optimization and representation theory Papers not only present novel results but also survey the current state of knowledge of important topics in applied discrete mathematics Particular highlights include a new computational framework based on geometric combinatorics for structure prediction from RNA sequences a new method for approximating the optimal solution of a sum of squares problem a survey of recent Helly type geometric theorems applications of representation theory to voting theory and game theory a study of fixed points of tensors and exponential random graph models from the perspective of algebraic statistics with applications to networks This volume was written for those trained in areas such as algebra topology geometry and combinatorics who are interested in tackling problems in fields such as biology

the social sciences data analysis and optimization It may be useful not only for experts but also for students who wish to gain an applied or interdisciplinary perspective **NASA's University Program** United States. National Aeronautics and Space Administration. Office of University Affairs,1977 **Global Consistency of Tolerances** Fred van Houten,Hubert Kals,2013-04-17 This book contains selected contributions from the 6th CIRP International Seminar on Computer Aided Tolerancing which was held on 22-24 March 1999 at the University of Twente Enschede The Netherlands This volume presents the theory and application of consistent tolerancing Until recently CAD/CAM systems did not even address the issue of tolerances and focused purely on nominal geometry Therefore CAD data was only of limited use for the downstream processes The latest generation of CAD/CAM systems incorporates functionality for tolerance specification However the lack of consistency in existing tolerancing standards and everyday tolerancing practice still lead to ill defined products excessive manufacturing costs and unexpected failures Research and improvement of education in tolerancing are hot items today Global Consistency of Tolerances gives an excellent overview of the recent developments in the field of Computer Aided Tolerancing including such topics as tolerance specification tolerance analysis tolerance synthesis tolerance representation geometric product specification functional product analysis statistical tolerancing education of tolerancing computational metrology tolerancing standards and industrial applications and CAT systems This book is well suited to users of new generation CAD/CAM systems who want to use the available tolerancing possibilities properly It can also be used as a starting point for research activities *Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics II* David Carfi,Michel L. Lapidus,Erin P. J. Pearse,Machiel van Frankenhuijsen,2013-10-24 This volume contains the proceedings from three conferences the PISRS 2011 International Conference on Analysis Fractal Geometry Dynamical Systems and Economics held November 8-12 2011 in Messina Italy the AMS Special Session on Fractal Geometry in Pure and Applied Mathematics in memory of Beno t Mandelbrot held January 4-7 2012 in Boston MA and the AMS Special Session on Geometry and Analysis on Fractal Spaces held March 3-4 2012 in Honolulu HI Articles in this volume cover fractal geometry and various aspects of dynamical systems in applied mathematics and the applications to other sciences Also included are articles discussing a variety of connections between these subjects and various areas of physics engineering computer science technology economics and finance as well as of mathematics including probability theory in relation with statistical physics and heat kernel estimates geometric measure theory partial differential equations in relation with condensed matter physics global analysis on non smooth spaces the theory of billiards harmonic analysis and spectral geometry The companion volume Contemporary Mathematics Volume 600 focuses on the more mathematical aspects of fractal geometry and dynamical systems *K-12 Math and Science Education, what is Being Done to Improve It?* United States. Congress. House. Committee on Science,United States. Congress. House. Committee on Science. Subcommittee on Technology,1999 Applied Algebra, Algebraic Algorithms, and Error-correcting Codes Teo Mora,1989-05-23 In 1988 for the first time the

two international conferences AAEEC 6 and ISSAC 88 International Symposium on Symbolic and Algebraic Computation see Lecture Notes in Computer Science 358 have taken place as a Joint Conference in Rome July 4 8 1988 The topics of the two conferences are in fact widely related to each other and the Joint Conference presented a good occasion for the two research communities to meet and share scientific experiences and results The proceedings of the AAEEC 6 are included in this volume The main topics are Applied Algebra Theory and Application of Error Correcting Codes Cryptography Complexity Algebra Based Methods and Applications in Symbolic Computing and Computer Algebra and Algebraic Methods and Applications for Advanced Information Processing Twelve invited papers on subjects of common interest for the two conferences are divided between this volume and the succeeding Lecture Notes volume devoted to ISSAC 88 The proceedings of the 5th conference are published as Vol 356 of the Lecture Notes in Computer Science Directory of Women Mathematicians ,1995 Maple in Mathematics Education and Research Robert M. Corless,Jürgen Gerhard,Ilias S. Kotsireas,2021-07-19 This book constitutes refereed proceedings of the 4th Maple Conference MC 2020 held in Waterloo Ontario Canada in November 2020 The 25 revised full papers and 3 short papers were carefully reviewed and selected out of 75 submissions one invited paper is also presented in the volume The papers included in this book cover topics in education algorithms and applications of the mathematical software Maple **NASA Technical Memorandum** ,1981 **Computer Mathematics** Kiyoshi Shirayanagi,Kazuhiro Yokoyama,2001 This volume covers some of the most recent and significant advances in computer mathematics including algebraic symbolic numeric and geometric computation automated mathematical reasoning mathematical software and computer aided geometric design Researchers engineers academics and graduate students interested in doing mathematics using computers will find this volume good reading and a valuable reference Computational Statistics in Data Science Walter W. Piegorsch,Richard A. Levine,Hao Helen Zhang,Thomas C. M. Lee,2022-03-23 Ein unverzichtbarer Leitfaden bei der Anwendung computergestützter Statistik in der modernen Datenwissenschaft In Computational Statistics in Data Science präsentiert ein Team aus bekannten Mathematikern und Statistikern eine fundierte Zusammenstellung von Konzepten Theorien Techniken und Praktiken der computergestützten Statistik für ein Publikum das auf der Suche nach einem einzigen umfassenden Referenzwerk für Statistik in der modernen Datenwissenschaft ist Das Buch enthält etliche Kapitel zu den wesentlichen konkreten Bereichen der computergestützten Statistik in denen modernste Techniken zeitgemäß und verständlich dargestellt werden Darüber hinaus bietet Computational Statistics in Data Science einen kostenlosen Zugang zu den fertigen Einträgen im Online Nachschlagewerk Wiley StatsRef Statistics Reference Online Außerdem erhalten die Leserinnen und Leser eine gründliche Einführung in die computergestützte Statistik mit relevanten und verständlichen Informationen für Anwender und Forscher in verschiedenen datenintensiven Bereichen Umfassende Erläuterungen zu aktuellen Themen in der Statistik darunter Big Data Datenstromverarbeitung quantitative Visualisierung und Deep Learning Das Werk eignet sich perfekt für Forscher und Wissenschaftler sämtlicher

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Nonassociative Mathematics and its Applications Petr Vojtěchovský, Murray R. Bremner, J. Scott Carter, Anthony B. Evans, John Huerta, Michael K. Kinyon, G. Eric Moorhouse, Jonathan D. H. Smith, 2019-01-14 Nonassociative mathematics is a broad research area that studies mathematical structures violating the associative law $x(yz) \neq (xy)z$ The topics covered by nonassociative mathematics include quasigroups loops Latin squares Lie algebras Jordan algebras octonions racks quandles and their applications This volume contains the proceedings of the Fourth Mile High Conference on Nonassociative Mathematics held from July 29 August 5 2017 at the University of Denver Denver Colorado Included are research papers covering active areas of investigation survey papers covering Leibniz algebras self distributive structures and rack homology and a sampling of applications ranging from Yang Mills theory to the Yang Baxter equation and Laver tables An important aspect of nonassociative mathematics is the wide range of methods employed from purely algebraic to geometric topological and computational including automated deduction all of which play an important role in this book **European Congress of Mathematics** Carles Casacuberta, Rosa M. Miro-Roig, Joan Verdera, Sebastia Xambo-Descamps, 2012-12-06 This is the second volume of the proceedings of the third European Congress of Mathematics Volume I presents the speeches delivered at the Congress the list of lectures and short summaries of the achievements of the prize winners as well as papers by plenary and parallel speakers The second volume collects articles by prize winners and speakers of the mini symposia This two volume set thus gives an overview of the state of the art in many fields of mathematics and is therefore of interest to every professional mathematician **Applications of Polynomial Systems** David A. Cox, 2020-03-02 Systems of polynomial equations can be used to model an astonishing variety of phenomena This book explores the geometry and algebra of such systems and includes numerous applications The book begins with elimination theory from Newton to the twenty first century and then discusses the interaction between algebraic geometry and numerical computations a subject now called numerical algebraic geometry The final three chapters discuss applications to geometric modeling rigidity theory and chemical reaction networks in detail Each chapter ends with a section written by a leading expert Examples in the book include oil wells HIV infection phylogenetic models four bar mechanisms border rank font design Stewart Gough platforms rigidity of edge graphs Gaussian graphical models geometric constraint systems and enzymatic cascades The reader will encounter geometric objects such as Bézier patches Cayley Menger varieties and toric varieties and algebraic objects such as resultants Rees algebras approximation complexes matroids and toric ideals Two important subthemes that appear in multiple chapters are toric varieties and algebraic statistics The book also discusses the history of elimination theory including its near elimination in the middle of the twentieth century The main goal is to inspire the reader to learn about the topics covered in the book

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