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Official organ of the book trade of the United Kingdom. While taking a class on infinity at Stanford in the late 1980s, Ravi Kapoor discovers that he is confronting the same mathematical and philosophical dilemmas that his mathematician grandfather had faced many decades earlier--and that had landed him in jail. Charged under an obscure blasphemy law in a small New Jersey town in 1919, Vijay Sahni is challenged by a skeptical judge to defend his belief that the certainty of mathematics can be extended to all human knowledge--including religion. Together, the two men discover the power--and the fallibility--of what has long been considered the pinnacle of human certainty, Euclidean geometry. As grandfather and grandson struggle with the question of whether there can ever be absolute certainty in mathematics or life, they are forced to reconsider their fundamental beliefs and choices. Their stories hinge on their explorations of parallel developments in the study of geometry and infinity--and the mathematics throughout is as rigorous and fascinating as the narrative and characters are compelling and complex. Moving and enlightening, *A Certain Ambiguity* is a story about what it means to face the extent--and the limits--of human knowledge. **A COMPREHENSIVE GUIDE TO STRUCTURAL GLASS FACADES FOR ARCHITECTS, ENGINEERS, AND BUILDERS** Once an experimental building form, structural glass facades have matured into a fully robust technology. *Structural Glass Facades and Enclosures* documents, defines, and categorizes the current state of the art in long-span glass facade design and construction, with a focus on structural systems, glass cladding options, and implementation strategies for innovative design. A comparative analysis of these various systems is included, along with designs and design practices for enhancing transparency; engineering issues; material, process, and fabrication considerations; installation means and methods; and project delivery strategies for implementing innovative building technology in today's construction marketplace. The reader will find information here that is not available together in any single resource, including: Structural system types and design options, with integrated glass system options and their application on each of the structural types An in-depth discussion of design, fabrication, and installation issues relative to each system type, accompanied by illustrations and photographs A discussion of the challenges of implementing innovative design and technology in the construction industry, and operational practices to improve the probability of success A series of in-depth case studies documenting representative samples of stunning built works that employ the technology and design principles identified in the book *Structural Glass Facades and Enclosures* provides expert content for putting cutting-edge technology into real-life practice, creating new potential for fresh applications embracing both aesthetic and

performance solutions, and for the adoption of the technology by architects, builders, and facade practitioners. Consuming over 40% of total primary energy, the built environment is in the centre of worldwide strategies and measures towards a more sustainable future. To provide resilient solutions, a simple optimisation of individual technologies will not be sufficient. In contrast, whole system thinking reveals and exploits connections between parts. Each system interacts with others on different scales (materials, components, buildings, cities) and domains (ecology, economy and social). Whole-system designers optimize the performance of such systems by understanding interconnections and identifying synergies. The more complete the design integration, the better the result. In this book, the reader will find the proceedings of the 2016 Sustainable Built Environment (SBE) Regional Conference in Zurich. Papers have been written by academics and practitioners from all continents to bring forth the latest understanding on systems thinking in the built environment. Internet tomography, introduced from basic principles through to techniques, tools and applications, is the subject of this book. The design of Internet Tomography Measurement Systems (ITMS) aimed at mapping the Internet performance profile spatially and temporally over paths between probing stations is a particular focus. The Internet Tomography Measurement System design criteria addressed include: • Minimally-invasive, independent and autonomous, active or passive measurement; • Flexibility and scalability; • Capability of targeting local, regional and global Internet paths and underlying IP networks; • Compliance with the standardised performance methodologies and quality of service (QoS) metrics such as those of the Internet Engineering Task Force's IP Performance Metrics Working Group. The book also features: • The use of Internet tomography measurement in modelling support, through network simulation and emulation, for real network and service design and analysis, and new service deployment; • The exploration of spatial and temporal Internet performance variations by means of scenario-based analysis using real-time Internet performance data; • Aspects of Internet tomography in next generation wireless network – wireless NGN – architectures; • The role of ITMS in Service Level Agreement design, implementation and compliance. Harold Jacobs's *Geometry* created a revolution in the approach to teaching this subject, one that gave rise to many ideas now seen in the NCTM Standards. Since its publication nearly one million students have used this legendary text. Suitable for either classroom use or self-paced study, it uses innovative discussions, cartoons, anecdotes, examples, and exercises that unfailingly capture and hold student interest. This edition is the Jacobs for a new generation. It has all the features that have kept the text in class by itself for nearly 3 decades, all in a thoroughly revised, full-color presentation that shows today's students how fun geometry can be. The text remains proof-based although the presentation is in the less formal paragraph format. The approach focuses on guided discovery to help students develop geometric intuition. Vols. for 1871-76, 1913-14 include an extra number, *The Christmas bookseller*, separately paged and not included in the consecutive numbering of the regular series. This publication showcases the work of UK mathematicians and statisticians by describing industrial problems that have been successfully solved, together with a summary of the financial and/or societal impact that arose from the work. The articles are grouped by sector, and include contributions to climate modelling, engineering and health. The articles are based on Impact Case Studies that were submitted to the Research Excellence Framework (REF2014), a UK government sponsored exercise that assessed the research quality within UK universities. There are many publications in the realm of 'popular mathematics' as well as a vast research literature that underpins this. This work is aimed at a middle ground between these two. Articles contain some mathematical detail, but the emphasis is on telling the story of a successful collaboration between academia and industry and on the results obtained. *UK Success Stories in Industrial Mathematics* is therefore accessible to a wide readership with interest in the applications of mathematics and statistics to problems of industrial importance and to those interested in how mathematics and statistics research affects our everyday lives and leads to economic and societal benefits. *The Poetical gazette*; the official organ of the Poetry society and a review of poetical affairs, nos. 4-7 issued as supplements to the *Academy*, v. 79, Oct. 15, Nov. 5, Dec. 3 and 31, 1910 A variety of stimulating, curriculum-correlated activities help learners succeed in the 3rd grade math classroom, and teacher support makes it easy to implement mathematics standards. *Geometry* offers narrow focus on the concepts and skills that help develop a strong foundation in mathematics. Valuable pre- and post-assessments aid teachers in individualizing instruction, diagnosing the areas where students are struggling, and measuring achievement. This book guides you through pre-algebra, algebra, and geometry -- the fundamental concepts you're striving to conquer, or the ones you once learned but may have forgotten -- in just 20 easy steps. Textile composites are made from textile fabric and resin. Depending on the weaving pattern, composite reinforcements can be characterized into two groups: uniform fabric and near-net shape fabric. Uniform fabric can be treated as an assembly of its smallest repeating pattern also called a unit cell; the latter is a single component with complex structure. Due to advantages of cost savings and inherent toughness, near-net shape fabric has gained great success in composite industries, for application such as turbine blades. Mechanical properties of textile composites are mainly determined by the geometry of the composite reinforcements. The study of a composite needs a

computational tool to link fabric micro- and macro-geometry with the textile weaving process and composite manufacturing process. A textile fabric consists of a number of yarns or tows, and each yarn is a bundle of fibers. In this research, a fiber-level approach known as the digital element approach (DEA) is adopted to model the micro- and macro-geometry of fabric and fabric reinforced composites. This approach determines fabric geometry based on textile weaving mechanics. A solver with a dynamic explicit algorithm is employed in the DEA. In modeling a uniform fabric, the topology of the fabric unit cell is first established based on the weaving pattern, followed by yarn discretization. An explicit algorithm with a periodic boundary condition is then employed during the simulation. After its detailed geometry is obtained, the unit cell is then assembled to yield a fabric micro-geometry. Fabric micro-geometry can be expressed at both fiber- and yarn-levels. In modeling a near-net shape fabric component, all theories used in simulating the uniform fabric are kept except the periodic boundary condition. Since simulating the entire component at the fiber-level requires a large amount of time and memory, parallel program is used during the simulation. In modeling a net-shape composite, a dynamic molding process is simulated. The near-net shape fabric is modeled using the DEA. Mold surfaces are modeled by standard meshes. Long vertical elements that only take compressive forces are proposed. Finally, micro- and macro-geometry of a fabric reinforced net-shape composite component is obtained. "This book considers conditions of applicability of mathematics to the study of natural phenomena. The possibility of such an application is one of the fundamental assumptions underlying the enormous theoretical and practical success of modern science. Addressing problems of matter, substance, infinity, number, structure of cognitive faculties, imagination, and of construction of mathematical object, Dmitri Nikulin examines mathematical (geometrical) objects in their relation to geometrical or intelligible matter and to imagination. The author explores questions in the history of philosophy and science, particularly in late antiquity and early modernity. The focus is on key thinkers Plotinus and Descartes (with the occasional appearance of Plato, Aristotle, Euclid, Proclus, Newton and others), in whom the fundamental presuppositions of ripe antiquity and of early modernity find their definite expression."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved Offers a practical guide for improving schools dramatically that will enable all students from all backgrounds to achieve at high levels. Includes assessment forms, an index, and a DVD.

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