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Complete with equations, illustrations, and tables, this book covers the basic theory of electric power transformers, its application to transformer designs, and their application in utility and industrial power systems. The author presents the principles of the two-winding transformer and its connection to polyphase systems, the origins of transformer losses, autotransformers, and three-winding transformers and compares different types of transformer coil and coil construction. He describes the effects of short circuits on transformers, the design and maintenance of ancillary equipment, and preventative and predictive maintenance practices for extending transformer life.

What if history had a sound track? What would it tell us about ourselves? Based on a thirty-part BBC Radio series and podcast, *Noise* explores the human dramas that have revolved around sound at various points in the last 100,000 years, allowing us to think in fresh ways about the meaning of our collective past. Though we might see ourselves inhabiting a visual world, our lives have always been hugely influenced by our need to hear and be heard. To tell the story of sound—music and speech, but also echoes, chanting, drumbeats, bells, thunder, gunfire, the noise of crowds, the rumbles of the human body, laughter, silence, conversations, mechanical sounds, noisy neighbors, musical recordings, and radio—is to explain how we learned to overcome our

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fears about the natural world, perhaps even to control it; how we learned to communicate with, understand, and live alongside our fellow beings; how we've fought with one another for dominance; how we've sought to find privacy in an increasingly noisy world; and how we've struggled with our emotions and our sanity. Oratory in ancient Rome was important not just for the words spoken but for the sounds made—the tone, the cadence, the pitch of the voice—how that voice might have been transformed by the environment in which it was heard and how the audience might have responded to it. For the Native American tribes first encountering the European colonists, to lose one's voice was to lose oneself. In order to dominate the Native Americans, European colonists went to great effort to silence them, to replace their "demonic" "roars" with the more familiar "bugles, speaking trumpets, and gongs." Breaking up the history of sound into prehistoric noise, the age of oratory, the sounds of religion, the sounds of power and revolt, the rise of machines, and what he calls our "amplified age," Hendy teases out continuities and breaches in our long relationship with sound in order to bring new meaning to the human story.

The student teaching experience is often considered one of the most influential aspects of teacher preparation. Key in the success of student teaching is the university supervisor. During the student teaching experience, the university supervisor is mainly responsible for helping pre-service teachers relate university coursework with the situated experiences in schools. However, much like the various other spaces and places in teacher

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education, facilitating teacher learning is an incredibly complex endeavor. This edited volume addresses the complexities of supervising student teachers from three distinct vantage points. First, salient issues regarding the supervision of student teachers such as the preparation of novice supervisors, negotiating power in the student teaching triad, and the low status of clinical teacher education are examined. Second, different pedagogical frameworks for the work of supervision are provided such as care theory, teacher education for democracy, and social justice. Finally, future directions for field-based teacher education are discussed, such as a call to reconsider where supervision takes place, the necessity to develop a pedagogy of supervision, 21st century trends facing clinical teacher education, and the value added by university supervisors to teacher development. Each of these chapters engage the supervision of student teachers through a mix of research, theory, and personal stories from the field. As such, this edited volume is designed for new supervisors, veteran supervisors, and supervision scholars.

A 420 page chronicle of the compilers' first six generations of Dayton ancestors in America. The compilation begins in 1617 with Ralph in Ashford, Kent and follows him to America, descending through Samuel, Abraham, Henry, David and David, spanning the years 1639 to 1807. The compilers sought primary reference and consultation, and in the effort to gather fragments of Dayton history, the work accumulated nearly 500 citations and 14 pages of works cited. The book is fully indexed and contains almost fifty images of original

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documents, autographs, illustrations, maps and photographs. Contextual or background information is also provided, particularly in the first few chapters, to aid understanding. The compilers' motivation for publishing many years of research is to provide family and researchers a collection of material with which to begin their own discovery. With the advantage of modern availability to information, early scholarship and family legends are confronted in the effort to expose real people. In doing so, differing interpretations are offered so the reader can draw their own conclusions and advance the dialog.

Madison walked through the fallen snow, looking left and right. It had been Kaylee's idea to use the trail through the forest; she said no one would follow them. But Madison lost sight of Kaylee for a moment and when she found her again she wasn't alone... In the remote forests of Stillwater, Minnesota, you can scream for days and no one will hear you. So when the bodies of two fifteen-year-old girls are discovered frozen in the snow, Special Agent Nikki Hunt is sure the killer is local: someone knew where to hide the girls and thought they would never be found. Though Nikki hasn't been home in twenty years, she knows she must take over the case. The Sheriff's department in Stillwater has already made a mistake by connecting the girls' murders to those of a famous serial killer, refusing to consider the idea that the killer could be someone from town. Then another girl's body is found, a red silk ribbon tied in her hair, and Nikki realizes that the killer has a connection to her own dark past, and the reason she left Stillwater. Nikki is not the only person in

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town who wants those secrets to stay hidden. Will she be able to face her demons before another child is taken? Gripping and spine-chilling, *The Girls in the Snow* will make you gasp, unable to put it down until the final heart-pounding twist. Perfect for fans of Karin Slaughter, Lisa Gardner and Robert Dugoni. What readers are saying about *The Girls in the Snow*: “This is the thriller that I didn’t know I was waiting for and needed in my life until I picked it up. SO GOOD. I’m still reeling and trying to catch my breath from this highly suspenseful and emotionally charged story... I need more ASAP.” Reading in Autumn, 5 stars “First time reading this author and I couldn’t put it down. Suspense that will keep you hooked until the very last page. Even when I wasn’t reading it, I couldn’t stop thinking about it... I had to see what happened.” Goodreads reviewer, 5 stars “A dagger sharp crime thriller. Highly recommended... I loved Nikki Hunt... Engaging. I never figured out what was going to happen next until I read it myself.” NetGalley reviewer, 5 stars “This is the first book in a long time that I’ve given up all household responsibilities, all TV time for and all my study time for. [I] knew nothing was going to get done outside of my day job until I finished this book, which I did in 24 hours... Fast-paced and jam-packed from start to finish.” Goodreads reviewer, 5 stars “Kept me guessing throughout... This one gets 5 stars, great series starter... a compelling mystery that had me wondering whodunit right up until the killer was revealed.” Goodreads reviewer, 5 stars “This book was fantastic! Everything about it worked... I was hooked from page one and didn’t put it down until I

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was done... I had no idea who the killer was until it was revealed. This is going to be a must read series!"

Goodreads reviewer, 5 stars "Wow!! Stacy Green's The Girls in the Snow opens with such force... and it keeps going until the very end... this is a top 10 for me!"

NetGalley reviewer, 5 stars "Bloody fantastic! I loved this book... I was hanging on to every word and couldn't put the book down... full of tension and action and kept me guessing. Highly recommend this book." Bonnie's Book Talk, 5 stars

"Fascinating and hilarious," "relentlessly clever," and "truly haunting" are all phrases that have been used to describe David Schickler's unique talent. And all apply to this brash, brilliant novel featuring two of the most memorable characters in contemporary fiction: Grace McGlone and Henry Dante. Sexy and willful, Grace McGlone is saving herself for the right man. When Henry Dante pulls into the small Wisconsin town where she works at the car wash, she instantly knows he's the one. He knows it too. But when Grace discovers Henry has "The Planets"—a stolen set of famous Spanish diamonds—stashed in the back seat of his truck, she's having none of it. She's "trying for heaven," and the ill-gotten jewels must go. And so they do, in a race across the American landscape from Chicago to Yellowstone, pursued by a savage gangster obsessed by the diamonds he thought were his. Passionate, criminal, comical, and possessing all the dark enchantment of a fairy tale, Sweet and Vicious is a modern love story shot straight from the heart of David Schickler's miraculous imagination.

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Explore the real science behind the Cartoon Network phenomenon Rick and Morty—one of television’s most irreverent, whip-smart, and darkly hilarious shows—and discover how close we are to Rick’s many experiments becoming a reality. Adult Swim’s Rick and Morty is one of the smartest (and most insane) shows on television. Genius alcoholic Rick Sanchez and his hapless grandson Morty have explored everything from particle physics to human augmentation and much more in their intergalactic adventures through the multiverse. With biting humor and plenty of nihilism, Rick and Morty employs cutting-edge scientific theories in every episode. But, outside of Rick’s garage laboratory, what are these theories truly about and what can they teach us about ourselves? Blending biology, chemistry, and physics basics with accessible—and witty—prose, *The Science of Rick and Morty* equips you with the scientific foundation to thoroughly understand Rick’s experiments from the show, such as how we can use dark matter and energy, just what is intelligence hacking, and whether or not you can really control a cockroach’s nervous system with your tongue. Perfect for longtime and new fans of the show, this is the ultimate segue into discovering more about our complicated and fascinating universe.

Since the Second World War, States have increasingly relied upon economic sanctions programs, in lieu of military action, to exert pressure and generally to fill the awkward gap between verbal denunciation and action. Whether or not sanctions are effective remains a point of contention among policymakers. Frequently asked questions include whether any legal order constrains the use of sanctions, and, if so, what the limits on the use of sanctions are. This volume gathers contributions from leading experts in various relevant fields providing a seminal study on the limits of economic sanctions under international law, including accountability

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mechanisms when sanctioning States go too far. Where there are gaps in the law, the authors provide novel and important contributions as to how existing legal structures can be used to ensure that economic sanctions remain within an accepted legal order. This book is a most valuable contribution to the literature in the fields of international economic law, public international law and international dispute resolution. Ali Z. Marossi is an advisory board member of The Hague Center for Law and Arbitration. Marisa R. Bassett is Associate Legal Officer in the Office of the Prosecutor for the ICTY and former Associate at White & Case LLP.

This collection is the product of a collaborative venture between criminologists and archaeologists concerned with the international market in illicit antiquities. It examines the state of regulation in the antiquities market, with a particular focus on the UK's position, but also with reference to the international context. Looting happens routinely and many countries have rich deposits of cultural material. Antiquities are highly collectable, and there are several prominent international centres for trade. As well as the legitimate face of the antiquities trade there therefore exists an international illicit market in which cultural objects are trafficked for profit in breach of national laws and international conventions. It is within such a complex international and local regulatory context that the essays presented here emerge, focusing upon three areas in particular: the demand for looted antiquities; the supply of cultural artefacts which originate in source countries; and regulation of the international market in antiquities. Criminology has long been interested in transnational crime and its regulation. Archaeologists' concerns lie in the destructive consequences of antiquities looting, which erases our knowledge of the past. In the papers presented here both disciplines present new data and analysis to forge a more coherent understanding of the nature

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and failings of the regulatory framework currently in place to combat the criminal market in antiquities.

This book aims to provide insights on new trends in power systems operation and control and to present, in detail, analysis methods of the power system behavior (mainly its dynamics) as well as the mathematical models for the main components of power plants and the control systems implemented in dispatch centers. Particularly, evaluation methods for rotor angle stability and voltage stability as well as control mechanism of the frequency and voltage are described. Illustrative examples and graphical representations help readers across many disciplines acquire ample knowledge on the respective subjects.

This brief, up-to-date examination of American colonial history draws connections between the colonial period and American life today by including formerly neglected areas of social and cultural history and the role of minorities (African-Americans, Native-Americans, women, and laboring classes). It summarizes and synthesizes recent studies and integrates them with earlier research. Key topics: European Backgrounds. The Native Americans. The Spanish Empire in America. The Portuguese, French, and Dutch Empires in America. The Background of English Colonization. The Tobacco Colonies: Virginia and Maryland. The New England Colonies. The Completion of Colonization. Seventeenth-Century Revolts and Eighteenth-Century Stabilization. Colonial Government. African-Americans in the English Colonies. Immigration. Colonial Agriculture. Colonial Commerce. Colonial Industry. Money and Social Status. The Colonial Town. The Colonial Family. Religion in Colonial America. Education in Colonial America. Language and Literature. Colonial Arts and Sciences. Everyday Life in Colonial America. The Second Hundred Years' War. The Road to Revolution. The Revolutionary War. Governments for

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a New Nation. Market: For anyone interested in Colonial History, American Revolution, or Early American Social History.

Contents: v.1 1649-1662, v.2 1662-1684, v.3 1684-1769.

Our Long Island Ancestors
The First Six Generations of
Daytons in America 1639-1807
James P Dayton

Sex work continues to provoke controversial legal and public policy debates world-wide that raise fundamental questions about the state's role in protecting individual rights, status quo social relations, and public health. This book unites ethnographic research from China, Canada, and the United States to argue that criminalization results in a totalizing set of negative consequences for sex workers' health, safety, and human rights. Such consequences are enabled through the operations of an exclusionary regime, a dense coalescence of punitive forces that involves both governance, in the form of the criminal justice system and other state agents, and dynamic interpersonal encounters in which individuals both enforce and negotiate stigma-related discrimination against sex workers. Chapter Two demonstrates how criminalization harms sex workers by isolating their work to potentially dangerous locations, fostering mistrust of authority figures, further limiting their abilities to find legal work and housing, and restricting possibilities for collective rights-based organizing. Criminalized sex workers report police harassment, seizure of condoms, and adversarial police-sex worker relations that enable others to abuse them with impunity. Chapter Three describes how sex workers negotiate these restrictions on their rights and personal autonomy via their arrest avoidance and client management strategies, self-treatment of health issues, selective mutual aid, rights-based organizing, and entrenchment in sex work or other criminalized activities. Chapter Four describes how researchers working in countries or locales that criminalize

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sex work face ethical concerns as well as barriers to their work at the practical, institutional, and political levels. Artists and creators in interactive art and interaction design have long been conducting research on human-machine interaction. Through artistic, conceptual, social and critical projects, they have shown how interactive digital processes are essential elements for their artistic creations. Resulting prototypes have often reached beyond the art arena into areas such as mobile computing, intelligent ambiances, intelligent architecture, fashionable technologies, ubiquitous computing and pervasive gaming. Many of the early artist-developed interactive technologies have influenced new design practices, products and services of today's media society. This book brings together key theoreticians and practitioners of this field. It shows how historically relevant the issues of interaction and interface design are, as they can be analyzed not only from an engineering point of view but from a social, artistic and conceptual, and even commercial angle as well.

Why do we believe in the soul? Does it actually exist? If so, what is it? Does it differ from the self? Is it part of the material world? Does it survive the body after death? In *The Spiritual Universe*, Fred Alan Wolf brings the most modern perspective of quantum physics to the most ancient questions of religion and philosophy. Taking the reader on a fascinating tour of both Western and Eastern thought, Wolf explains the differing view of the soul in the works of Plato, Aristotle, and St. Thomas--the ancient Egyptian's believe in the nine forms of the soul/ the Qabalistic idea of the soul acting in secret to bring spiritual order to a chaotic universe of matter and energy--and the Buddhist vision of a "nonsoul." And, Wolf mounts a defense of the soul against its modern critics who see it as nothing more than the physical body.

In recent years, semiconductor-based heterogeneous

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photocatalysis has received great attention as a promising "green" approach enabling the sustainable development of environment and energy, such as the removal of organic dye pollutants from wastewater and selective organic transformations under ambient conditions. Chapter one of this book summarizes recent advances on the characterization and photocatalytic properties of well-defined ceria (CeO_2) nanocrystals, including one-dimensional nanorods and three-dimensional nanocubes that are hydrothermally synthesized. Chapter two summarizes recent advances on the characterization and photocatalytic properties of well-defined perovskite potassium niobate (KNbO_3) with different morphologies, and with emphasis on the effect of crystal structure on photoreactivity. The final chapter summarizes fundamental principles of the design of solar-light-driven semiconductor-based photocatalytic systems for water splitting and H_2 evolution from water and aqueous solutions of various electron-donating sacrificial substrates, the state-of-the-art in the development of such systems, perspectives and challenges in the field of the green and sustainable photocatalytic hydrogen production.

The objective of the book is to fill a knowledge gap by covering the topic of substation automation by a team of authors, with academic and industry backgrounds.

Understanding substation automation concepts and practical solutions requires knowledge in vastly diverse areas, such as primary and secondary equipment, computers, communications, fiber optic sensors, signal processing, and general information technology not generally taught in a power curricula but taught as independent subjects. At the same time, utility practice dictates how substation automation designs may be laid out and deployed. To design such a system one also requires knowledge about existing standards for data exchange, as well as test methods for evaluation of

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solutions. This book is designed to meet the educational needs of undergraduate and graduate power majors, as well as to serve as a reference to professionals who need to know about substation automation because of fast changing technology expertise needed in their careers. To meet the wide range of interests and needs, the book covers diverse aspects of substation automation, allowing instructors to select the best combination of chapters to meet their specific educational needs.

Contributed chapters by psychologists and behavioral biologists provide a broad coverage of animal behavior, and governing brain processes. Topics covered include: foraging behavior and strategies, economics and psychology, memory of events and space, time perception, expectancies, food preferences and diet selection, behavior variability and the concept of mind. The volume is designed to satisfy an interdisciplinary audience, embracing the behavioristic tradition, biological and physiological approaches, and evolutionary theory as philosophical underpinnings to the chapters. Also achieved in this work is a good balance between empirical results and theory.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Create your own STM32 programs with ease! Get up and running programming the STM32 line of microcontrollers from STMicroelectronics using the hands-on information contained in this easy-to-follow guide. Written by an experienced electronics hobbyist and author, Programming with STM32: Getting Started with the Nucleo Board and C/C++ features start-to-finish projects that clearly demonstrate each technique. Discover how to set up a stable development toolchain, write custom programs, download your programs to the development board, and execute them.

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You will even learn how to work with external servos and LED displays!

- Explore the features of STM32 microcontrollers from STMicroelectronics
- Configure your Nucleo-64 Microcontroller development board
- Establish a toolchain and start developing interesting applications
- Add specialized code and create cool custom functions
- Automatically generate C code using the STM32CubeMX application
- Work with the ARM Cortex Microcontroller Software Interface Standard and the STM hardware abstraction layer (HAL).
- Control servos, LEDs, and other hardware using PWM
- Transfer data to and from peripheral devices using DMA
- Generate waveforms and pulses through your microcontroller's DAC

This work has been revised and updated to provide a comprehensive treatment of database design for commercial database products and their applications. The book covers the basic foundation of design as well as more advanced techniques, and also incorporates coverage of data warehousing and OLAP (On-Line Analytical Processing), data mining, object-relational, multimedia, and temporal/spatial design.

This is an incredibly interesting book on an increasingly pertinent topic. . . the book is succinctly written and provides a comprehensive overview of EU law. . . providing a really useful analysis of the European cases concerned with the imposition of a duty to deal in relation to intellectual property. . . This book is a thoroughly enjoyable read, and perhaps because of its brevity the author retains her focus on the central issues being examined. I found it to be engaging and thought provoking. Jane Nielsen, Competition and Consumer Law Journal

The book caters for various groups ranging from those with a general interest in competition law, patent law and/or biopharmaceuticals, to students who want to understand how competition and intellectual property work in

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practice (or to understand the interface between the two policies), and from practitioners and policymakers to people within the biopharmaceutical industry itself. Journal of Intellectual Property Rights Using the example of research tools in biopharmaceutical research and innovation, this book examines the complexities of the relationship between two fundamental areas of law and policy intellectual property rights and competition law. It addresses a question that is certain to become paramount in other industries also: how to strike the balance between initial and follow-on innovation so as to ensure that access to essential research tools (or other fundamental elements to follow-on innovation) is not impeded. The book concludes by suggesting how competition law could be used to complement the patent balance. Competition Law and Patents caters for various groups ranging from those with a general interest in competition law, patent law and/or biopharmaceuticals, to students who want to understand how competition and intellectual property work in practice (or to understand the interface between the two policies), and from practitioners and policymakers to people within the biopharmaceutical industry itself.

A black & white collection of original line drawings of the Roaring Fork Valley, Colorado, for coloring.

You've researched your character extensively, tailored her to your audience, sketched hundreds of versions, and now you lean back content as you gaze at your final character model sheet. But now what? Whether you want to use her in an animated film, television show, video game, web comic, or children's book, you're going to have to make her perform. How a character looks and is costumed starts to tell her story, but her body language reveals even more. Character Mentor shows you how to pose your character, create emotion through facial expressions, and stage your character to create drama. Author Tom Bancroft addresses each topic

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with clear, concise prose, and then shows you what he really means through commenting on and redrawing artwork from a variety of student "apprentices." His assignments allow you to join in and bring your drawing to the next level with concrete techniques, as well as more theoretical analysis. Character Mentor is an apprenticeship in a book. Professional artists from a variety of media offer their experience through additional commentary. These include Marcus Hamilton (Dennis the Menace), Terry Dodson (X-Men), Bobby Rubio (Pixar), Sean "Cheeks" Galloway (Spiderman animated), and more. With a foreword by comicbook artist Adam Hughes, who has produced work for DC, Marvel Comics, Lucasfilm, Warner Bros. Pictures, and other companies.

IEC 61850-Based Smart Substations: Principles, Testing, Operation and Maintenance systematically presents principles, testing approaches, and the operation and maintenance technologies of such substations from the perspective of real-world application. The book consists of chapters that cover a review of IEC 61850 based smart substations, substation configuration technology, principles and testing technologies for the smart substation, process bus, substation level, time setting and synchronization, and cybersecurity. It gives detailed information on testing processes and approaches, operation and maintenance technologies, and insights gained through practical experience. As IEC 61850 based smart substations have played a significant role in smart grids, realizing information sharing and device interoperation, this book provides a timely resource on the topics at hand. Contributes

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to the overall understanding of standard IEC 61850, analyzing principles and features Introduces best practices derived from hundreds of smart substation engineering applications Summarizes current research and insights gained from practical experience in the testing, operation and maintenance of smart substation projects in China Gives systematic and detailed information on testing technology Introduces novel technologies for next-generation substations

When should we make use of the criminal law? Crimes, Harms, and Wrongs offers a philosophical analysis of the nature and ethical limits of criminalisation. The authors explore the scope of harm-based prohibitions, proscriptions of offensive behaviour, and 'paternalistic' prohibitions aimed at preventing self-harm, developing guiding principles for these various grounds of state prohibition. Both authors have written extensively in the field. They have produced an integrated, accessible, philosophically-sophisticated account that will be of great interest to legal academics, philosophers, and advanced students alike. 'this elegant, closely argued and convincing book is of great value and can be expected to be of lasting influence.' James Chalmers 'Crimes, Harms, and Wrongs . . . is a welcome addition to this field, and should clarify the reader's thinking on a breathtakingly broad range of issues. . . . This is an important book, and [its]

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consideration of not only Anglo-American theory and law, but also German legal doctrines and writings on criminalisation, should ensure that this debate reaches new heights in the future.' Findlay Stark 'the result of [the authors'] many decades of thought and writing on this fundamental subject is an integrated, accessible, philosophically sophisticated discussion of this subject.' Justice Gilles Renaud 'A.P. Simester and Andreas von Hirsch present an informed and systematic account of the principles that, in their view, should structure decisions about what to criminalize, and when.' Vincent Chiao 'an outstanding work, original in many respects and meticulous in its arguments. It represents the greatest advance on this subject since Feinberg's four volumes . . . an outstanding contribution to the re-invigorated criminalization debate.' Andrew Ashworth 'important, original, interesting, and often ingenious. Unlike some recent competitive books it has the virtue of making sound arguments. And like everything else the authors have written, it is a joy to read ...This is an absolutely wonderful book.'

Douglas Husak

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