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Challenges traditional views of gender identity and sexual orientation in animals and humans, explaining how diversity is developed from genes and hormones and why it should be celebrated and affirmed.

This volume aims to document the most important worldwide accomplishments in converging knowledge and technology, including converging platforms, methods of convergence, societal implications, and governance in the last ten years. Convergence in knowledge, technology, and society is the accelerating, transformative interaction among seemingly distinct scientific disciplines, technologies, and communities to achieve mutual compatibility, synergism, and integration, and through this process to create added value for societal benefit. It is a movement that is recognized by scientists and thought leaders around the world as having the potential to provide far-reaching solutions to many of today's complex knowledge, technology, and human development challenges. Four essential and interdependent convergence platforms of human activity are defined in the first part of this report: nanotechnology-biotechnology-information technology and cognitive science ("NBIC") foundational tools; Earth-scale environmental systems; human-scale activities; and convergence methods for societal-scale activities. The report then presents the main implications of convergence for human physical potential, cognition and communication, productivity and societal outcomes, education and physical infrastructure, sustainability, and innovative and responsible governance. As a whole, the report presents a new model for convergence. To effectively take advantage of this potential, a proactive governance approach is suggested. The study identifies an international opportunity to develop and apply convergence for technological, economic, environmental, and societal benefits. The panel also suggests an opportunity in the United States for implementing a program aimed at focusing disparate R and D energies into a coherent activity - a "Societal Convergence Initiative". This study received input from leading academic, industry, government, and NGO experts from the United States, Latin America, Europe, Asia, and Australia.

This highly unusual book began as a serious inquiry into Schrödinger's question, "What is life?", and as a celebration of life itself. It takes the reader on a voyage of discovery through many areas of contemporary physics, from non-equilibrium thermodynamics and quantum optics to liquid crystals and fractals, all necessary for illuminating the problem of life. In the process, the reader is treated to a rare and exquisite view of the organism, gaining novel insights not only into the physics, but also into "the poetry and meaning of being alive." This much-enlarged third edition includes new findings on the central role of biological water in organizing living processes; it also completes the author's novel theory of the organism and its applications in ecology, physiology and brain science.

A Penguin Classic Winner of the 1973 National Book Award, Gravity's Rainbow is a postmodern epic, a work as exhaustively significant to the second half of the twentieth century as Joyce's Ulysses was to the first. Its sprawling, encyclopedic narrative and penetrating analysis of the impact of technology on society make it an intellectual tour de force. This Penguin Classics deluxe edition features a specially designed cover by Frank Miller along with french claps and deckle-edged paper. For more than seventy years, Penguin has been the leading publisher of classic literature in the English-speaking world. With more than 1,700 titles, Penguin Classics represents a global bookshelf of the best works throughout history and across genres and disciplines. Readers trust the series to provide authoritative texts enhanced by introductions and notes by distinguished scholars and contemporary authors, as well as up-to-date translations by award-winning translators.

"A picture book illustrating a Pride parade. The endmatter serves as a primer on LGBT history and culture and explains the references made in the story"--

Electricity has shaped the modern world. But how has it affected our health and environment? Over the last 220 years, society has evolved a universal belief that electricity is 'safe' for humanity and the planet. Scientist and journalist Arthur Firstenberg disrupts this conviction by telling the story of electricity in a way it has never been told before--from an environmental point of view--by detailing the effects that this fundamental societal building block has had on our health and our planet. In *The Invisible Rainbow*, Firstenberg traces the history of electricity from the early eighteenth century to the present, making a compelling case that many environmental problems, as well as the major diseases of industrialized civilization--heart disease, diabetes, and cancer--are related to electrical pollution.

This book is a compendium of the proceedings of the International Conference on Big-Data and Cloud Computing. The papers discuss the recent advances in the areas of big data analytics, data analytics in cloud, smart cities and grid, etc. This volume primarily focuses on the application of knowledge which promotes ideas for solving problems of the society through cutting-edge big-data technologies. The essays featured in this proceeding provide novel ideas that contribute for the growth of world class research and development. It will be useful to researchers in the area of advanced engineering sciences.

Simon Farquhar's first play for the Royal Court Theatre where it premieres in 2006.

[Administration (référence électronique)].

Discrimination against LGBTI people remains pervasive, while its cost is massive. This report provides a comprehensive overview of the extent to

which laws in OECD countries ensure equal treatment of LGBTI people, and of the complementary policies that could help foster LGBTI inclusion.

Using simple language, this text explains the properties of light, its interaction with matter, and how it is used to develop optical components such as filters and multiplexers that have applications in optical communications. The text also introduces the evolving dense wavelength division multiplexing (DWDM) technology and communications systems.

The magic and colour of Toyland comes to life as never before in *Make Way for Noddy*, a brand new 100x10 minute animation series produced in CGI (computer generated imagery) technology. This major new TV production features the much-loved regular Toyland characters, a whole set of original stories and a new song for every episode.

A new edition the most popular Hack Proofing book around! IT professionals who want to run secure networks, or build secure software, need to know about the methods of hackers. The second edition of the best seller *Hack Proofing Your Network*, teaches about those topics, including: · The Politics, Laws of Security, Classes of Attack, Methodology, Diffing, Decrypting, Brute Force, Unexpected Input, Buffer Overrun, Sniffing, Session Hijacking, Spoofing, Server Holes, Client Holes, Trojans and Viruses, Reporting Security Problems, Choosing Secure Systems The central idea of this book is that it's better for you to find the holes in your network than it is for someone else to find them, someone that would use them against you. The complete, authoritative guide to protecting your Windows 2000 Network. Updated coverage of an international bestseller and series flagship Covers more methods of attack and hacker secrets Interest in topic continues to grow - network architects, engineers and administrators continue to scramble for security books Written by the former security manager for Sybase and an expert witness in the Kevin Mitnick trials A great addition to the bestselling "Hack Proofing..." series Windows 2000 sales have surpassed those of Windows NT Critical topic. The security of an organization's data and communications is crucial to its survival and these topics are notoriously difficult to grasp Unrivalled web support at www.solutions@syngress.com

This book constitutes the refereed proceedings of the Third International Workshop on Information Security, ISW 2000, held in Wollongong, Australia in December 2000. The 23 revised full papers presented were carefully reviewed and selected from 63 submissions. The papers are organized in topical sections on multimedia copyright protection, e-commerce, key management, network security and access control, and cryptographic systems.

Eloise shares her love of colors with her blind friend Rainbow Joe, who makes his own colors when he plays beautiful notes on his saxophone.

"This encyclopedia offers a comprehensive knowledge of multimedia information technology from an economic and technological perspective"--Provided by publisher.

This book constitutes the refereed proceedings of the International Symposium on Security in Computing and Communications, SSCC 2014, held in Delhi, India, in September 2013. The 36 revised full papers presented together with 12 work-in-progress papers were carefully reviewed and selected from 132 submissions. The papers are organized in topical sections on security and privacy in networked systems; authentication and access control systems; encryption and cryptography; system and network security; work-in-progress.

'Blown to Bits' is about how the digital explosion is changing everything. The text explains the technology, why it creates so many surprises and why things often don't work the way we expect them to. It is also about things the information explosion is destroying: old assumptions about who is really in control of our lives.

Robert Gu is a world-renowned poet and recovering Alzheimer's patient. The world that he remembers was much as we know it today. Now, as he regains his faculties through a new cure, he discovers that the world has changed. He is seventy-five years old, though by a medical miracle he looks much younger, and he's starting over, for the first time unsure of his poetic gifts. Living with his son's family, he has no choice but to learn how to cope with a new information age in which the virtual and the real are a seamless continuum. But the consensus reality of the digital world is available only if, like his thirteen-year-old granddaughter Miri, you know how to wear your wireless access and to see the digital context—through smart contact lenses. With knowledge comes risk. When Robert begins to re-train at Fairmont High he unwittingly becomes part of a wide-ranging conspiracy to use technology as a tool for world domination. This conspiracy is something that baffles even the most sophisticated security analysts, including Robert's son and daughter-in law, two top people in the U.S. military. And even Miri, in her attempts to protect her grandfather, may be entangled in the plot . . . 'In the grand tradition of William Gibson and Neal Stephenson, Vernor Vinge just turned the future upside-down in *Rainbow's End*' Charles Stross

The way we talk, work, learn, and think has been greatly shaped by modern technology. These lifestyle changes have made digital literacy the new written literacy, where those who are not able to use computers are unable to function and perform everyday tasks. The Handbook of Research on Comparative Approaches to the Digital Age Revolution in Europe and the Americas explores the new ways that technology is shaping our society and the advances it is bringing, along with potential drawbacks, such as human jobs being replaced by computers. This expansive handbook is an essential reference source for students, academics, and professionals in the fields of communication, information technology, sociology, social policy, and education; it will also prove of interest to policymakers, funding-agencies, and digital inclusion program developers. This handbook features a broad

scope of research-based articles on topics including, but not limited to, computational thinking, e-portfolios, e-citizenship, digital inclusion policies, and information literacy as a form of community empowerment.

This edition of the U.S. Geological Survey (USGS) Minerals Yearbook discusses the performance of the worldwide minerals and materials industries during year 2013 and provides background information to assist in interpreting that performance. These annual reviews are designed to provide timely statistical data on mineral commodities in various countries. This volume covers data from Asia and the Pacific. Each report includes sections on government policies and programs, environmental issues, trade and production data, industry structure and ownership, commodity sector developments, infrastructure, and a summary outlook. Audience: Government employees and contractors, as well as businesses and employees, all working in mineral-related trades, especially with interests in statistics about mineral commodities overseas, will find this resource invaluable.

With wild stocks declining due to over-fishing, aquaculture will have a more significant role to play in meeting future demand for fresh fish. Developments in research continue to lead to improvements in aquaculture production systems, resulting in increased production efficiency, higher product quality for consumers and a more sustainable industry. New technologies in aquaculture reviews essential advances in these areas. Part one focuses on the genetic improvement of farmed species and control of reproduction, with chapters on genome-based technologies in aquaculture research, selective breeding and the production of single sex and sterile populations, among other topics. Parts two and three review key issues in health, diet and husbandry, such as the control of viral and parasitic diseases, diet and husbandry techniques to improve disease resistance, advances in diets for particular fish species and the impact of harmful algal bloom on shellfisheries aquaculture. Chapters in Parts three and four then examine the design of different aquaculture production systems, including offshore technologies, tank-based recirculating systems and ponds, and key environmental issues, such as the prediction and assessment of the impact of aquaculture. Concluding chapters focus on farming new species. With its well-known editors and distinguished international team of contributors, New technologies in aquaculture is an essential purchase for professionals and researchers in the aquaculture industry. Reviews recent advances in improvements in aquaculture production Focuses on the genetic improvement and reproduction of farmed species, including genome-based technologies Discusses key health issues, including advances in disease diagnosis, vaccine development and other emerging methods to control pathogens in aquaculture

In Team Topologies DevOps consultants Matthew Skelton and Manuel Pais share secrets of successful team patterns and interactions to help readers choose and evolve the right team patterns for their organization, making sure to keep the software healthy and optimize value streams. Team Topologies will help readers discover:

- Team patterns used by successful organizations.
- Common team patterns to avoid with modern software systems.
- When and why to use different team patterns
- How to evolve teams effectively.
- How to split software and align to teams.

"Aniline and azo dyes were the first of many novel substances that chemists began to synthesize on an industrial-scale from coal-tar, a waste product of the gas industry. The new dyes, originally intended for textiles, were soon added to food, becoming one of the first laboratory-created, industrially manufactured chemicals to be used in our daily life in unexpected ways. By the time the risks and uncertainties surrounding the synthesized chemicals began to surface, the dyes were being used everywhere from clothes and furnishings to cookware and food. A Rainbow Palate examines how chemists in Europe and the US maneuvered themselves to become instrumental players in new regimes of food production, regulation, and quality testing. As increasing industrialization, international trade, and competition led to mounting concerns about food adulteration, manufacturers and retailers, politicians and the public all invoked chemists to represent their interests. As Carolyn Cobbold reveals, the widespread use of new chemical substances and techniques influenced perceptions and understanding of food, science, and technology as well as trust in science and scientists. Because the new dyes were among the earliest contested chemical additives in food, the battles surrounding their use offer striking insights and parallels into today's international struggles surrounding chemical, food, and trade regulation"--

This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users.

This book constitutes the refereed proceedings of the Second Joint International Conference on Electronic Government and the Information Systems Perspective, and Electronic Democracy, EGOVIS/EDEM 2013, held in Prague, Czech Republic, in August 2013, in conjunction with DEXA 2013. The 19 revised full papers presented were carefully reviewed and selected for inclusion in this volume. They focus on the currently most sensitive areas in the field, such as identity management as a core component in any e-government or participation system, open data, mobile government applications as well as intelligent and learning systems. The papers are organized in the following topical sections: identity management in e-government; intelligent systems in e-government; e-government cases; mobile government; open government data; and e-participation.

"Companies and research labs worldwide are racing to develop Dense Wavelength Division Multiplexing (DWDM) technology, a far-reaching advancement in the fiber optical communications field. To help you keep pace with these latest developments, this all-in-one resource brings you a clear, concise overview of the technology that is transporting and processing vast amounts of information at the speed of light. Until now, no book offered a practical introduction to DWDM advances. INTRODUCTION TO DWDM TECHNOLOGY will help you learn all the essentials for this emerging field: * Principles of physics underlying optical devices * Optical components needed to design optical and DWDM systems * Coding and decoding techniques used in optical communications * Overview of DWDM systems * State-of-the-art research trends Complete with four-color illustrations to show how devices work, this comprehensive book provides an invaluable discussion of DWDM basics necessary for practicing electrical engineers, optical systems designers, technical managers, and undergraduate students in optical communications. Go to <http://www.ieee.org/organizations/pubs/press/Kartfm.pdf> for a complete Table of Contents and a look at the Introduction. You can check out Chapter 5, "'Optical Demultiplexers'" by clicking on <http://www.ieee.org/organizations/pubs/press/KartCh5.pdf> About the Author Stamatios V. Kartalopoulos is currently on the staff of the Optical Networks Group of Lucent Technologies, Bell Labs Innovations, formerly known as AT&T. His research interests include ATM and SONET/SDH systems, ultrafast pattern recognition, IP and DWDM, access enterprise systems, local area networks, fiber networks, satellite systems, intelligent signal processing, neural networks, and fuzzy logic. He holds several patents of which six patents (and six pending) are in communications and optical communications systems." Sponsored by: IEEE Communications Society

Covers the important concepts, methodologies, technologies, applications, social issues, and emerging trends in this field. Provides researchers, managers, and other professionals with the knowledge and tools they need to properly understand the role of end-user computing in the modern organization.

Maximum PC is the magazine that every computer fanatic, PC gamer or content creator must read. Each and every issue is packed with punishing product reviews, insightful and innovative how-to stories and the illuminating technical articles that enthusiasts crave.

The most beautiful fish in the entire ocean discovers the real value of personal beauty and friendship.

Technology has become an integral part of our everyday lives. This trend in ubiquitous technology has also found its way into the learning process at every level of education. The Handbook of Research on Education and Technology in a Changing Society offers an in-depth description of concepts related to different areas, issues, and trends within education and technological integration in modern society. This handbook includes definitions and terms, as well as explanations of concepts and processes regarding the integration of technology into education. Addressing all pertinent issues and concerns in education and technology in our changing society with a wide breadth of discussion, this handbook is an essential collection for educators, academicians, students, researchers, and librarians.

This book explores the nexus of Sustainability and Information Communication Technologies that are rapidly changing the way we live, learn, and do business. The monumental amount of energy required to power the Zeta byte of data traveling across the globe's billions of computers and mobile phones daily cannot be overstated. This ground-breaking reference examines the possibility that our evolving technologies may enable us to mitigate our global energy crisis, rather than adding to it. By connecting concepts and trends such as smart homes, big data, and the internet of things with their applications to sustainability, the authors suggest that emerging and ubiquitous technologies embedded in our daily lives may rightfully be considered as enabling solutions for our future sustainable development.

"This multiple-volume publication advances the emergent field of mobile computing offering research on approaches, observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers"--Provided by publisher.