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Sir Frederic Bartlett developed an experimental study of the variety of processes known as thinking. He defines thought as a natural development from earlier established forms of bodily skilled behavior. He has designed some novel experiments (predominantly objective), illustrates some of these experiments, and includes a discussion of their results.

This book provides an overview of the latest technological advances in various ophthalmology subspecialties: from the latest glaucoma shunt devices to mobile adaptors for posterior segment evaluation, this book has it all. It gives readers a valuable head start for adopting the uber-new and cutting-edge products now available on the market. Being familiar with these new products and technologies will help both new and established ophthalmologists make effective and efficient choices, while also helping their practices stand out from the crowd. Perhaps no other branch of medicine is as technology-oriented as ophthalmology: be it lasers, fiber optics, robotics, stem cells or nanoparticles, every cutting-edge step that “Research and Development” takes is rapidly integrated into everyday eye practice. As part of the series “Current Practices in Ophthalmology”, this

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volume is intended for residents, fellows-in-training, generalist ophthalmologists, specialists and vision science researchers alike.

Read the searing first novel from the celebrated author of *Beloved*, which immerses us in the tragic, torn lives of a poor black family in post-Depression 1940s Ohio. Unlovely and unloved, Pecola prays each night for blue eyes like those of her privileged white schoolfellows. At once intimate and expansive, unsparing in its truth-telling, *The Bluest Eye* shows how the past savagely defines the present. A powerful examination of our obsession with beauty and conformity, Toni Morrison's virtuosic first novel asks powerful questions about race, class, and gender with the subtlety and grace that have always characterised her writing. 'She revealed the sins of her nation, while profoundly elevating its canon. She suffused the telling of blackness with beauty, whilst steering us away from the perils of the white gaze. That's why she told her stories. And why we will never, ever stop reading them' Afua Hirsch 'Discovering a writer like Toni Morrison is rarest of pleasures' *Washington Post* 'When she arrived, with her first novel, *The Bluest Eye*, she immediately re-ordered the American literary landscape' Ben Okri Winner of the PEN/Saul Bellow award for achievement in American fiction

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The ability to see deeply affects how human beings perceive and interpret the world around them. For most people, eyesight is part of everyday communication, social activities, educational and professional pursuits, the care of others, and the maintenance of personal health, independence, and mobility. Functioning eyes and vision system can reduce an adult's risk of chronic health conditions, death, falls and injuries, social isolation, depression, and other psychological problems. In children, properly maintained eye and vision health contributes to a child's social development, academic achievement, and better health across the lifespan. The public generally recognizes its reliance on sight and fears its loss, but emphasis on eye and vision health, in general, has not been integrated into daily life to the same extent as other health promotion activities, such as teeth brushing; hand washing; physical and mental exercise; and various injury prevention behaviors. A larger population health approach is needed to engage a wide range of stakeholders in coordinated efforts that can sustain the scope of behavior change. The shaping of socioeconomic environments can eventually lead to new social norms that promote eye and vision health. Making Eye Health a Population Health Imperative: Vision for Tomorrow proposes a new population-centered framework to guide action and coordination among various, and sometimes

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competing, stakeholders in pursuit of improved eye and vision health and health equity in the United States. Building on the momentum of previous public health efforts, this report also introduces a model for action that highlights different levels of prevention activities across a range of stakeholders and provides specific examples of how population health strategies can be translated into cohesive areas for action at federal, state, and local levels.

Jane Elliott is an educator who began her career in a third-grade classroom in Riceville, Iowa, and over the past fifty years has become an educator of people of all ages all over the U.S. and abroad. The Blue-eyed, Brown-eyed Exercise which she devised to help her students to understand Martin Luther King, Jr.'s work, has been cited and studied by psychologists and sociologists all over the world. Elliott lives in a remodeled schoolhouse twenty-one miles from where she was born. She remains steadfast in her belief that there is only one race, THE HUMAN RACE, of which we are all members.

This book presents selected papers from 1st International Conference on Optical and Wireless Technologies, providing insights into the analytical, experimental, and developmental aspects of systems, techniques, and devices in these spheres. It explores the combined use of various optical and wireless technologies in next-generation networking applications, and discusses the latest developments

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in applications such as photonics, high-speed communication systems and networks, visible light communication, nanophotonics, and wireless and multiple-input-multiple-output (MIMO) systems. The book will serve as a valuable reference resource for academics and researchers across the globe.

For almost every sensationalized media report of product failure, a closer look often determines these failures occurred due to inadequate reliability theory and methodology. Current theories and practices cannot solve these problems, mainly because test specifications, especially lifetime tests, express their results as either pass or fail; these results thus provide little useful quantitative information. In a clear, concise presentation, *Improving Reliability and Quality for Product Success* discusses how to eradicate failures in hardware products and, consequently, achieve greater success in the marketplace. Evolved from the author's more than thirty years of experience, the book redefines quality and reliability terminology, explains failure mechanics, and analyzes why reliability accidents occur in the products of established corporations. The author presents a new prevention methodology in easily understood qualitative and scientific terms. Without excess discussions of the complex related mathematics, he creates principles that enable readers to identify problems before product release into the market. These novel concepts and methodology can reduce product troubles by establishing test specifications that produce quantified outcomes that constitute conclusive judgment

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data. Many books that cover reliability theory/engineering/practice are geared towards professionals with advanced mathematical skills and would not necessarily be of use to executives and CEOs, who may not be quality or reliability experts but need to understand these principles when making decisions. This book addresses this important but neglected audience, introducing novel ideas based on back-to basics quality/reliability concepts in an easily understood manner. In addition, it explains basic, fresh new methods for maximizing customer satisfaction and securing a competitive edge in performance.

The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion—imageability—and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book.

Lois Lowry once again creates a mysterious but plausible future world. It is a society ruled by savagery and deceit that shuns and discards the weak. Left orphaned and physically flawed, young Kira faces a frightening, uncertain future. Blessed with an almost magical talent that keeps her alive, she struggles with ever broadening responsibilities in her quest for truth,

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discovering things that will change her life forever. As she did in *THE GIVER*, Lowry challenges readers to imagine what our world could become, how people could evolve, and what could be considered valuable. Every reader will be taken by Kira's plight and will long ponder her haunting world and the hope for the future.

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Handling of Equipment Projector Setups Video Setups Audio Setups.

Smart Homes (SH) offer a promising approach to assisted living for the ageing population. Yet the main obstacle to the rapid development and deployment of Smart Home (SH) solutions essentially arises from the nature of the SH field, which is multidisciplinary and involves diverse applications and various stakeholders. Accordingly, an alternative to a one-size-fits-all approach is needed in order to advance the state of the art towards an open SH infrastructure. This book makes a valuable and critical contribution to smart assisted living research through the development of new effective, integrated, and interoperable SH solutions. It focuses on four underlying aspects: (1) Sensing and Monitoring Technologies; (2) Context Interference and Behaviour Analysis; (3) Personalisation and Adaptive Interaction, and (4) Open Smart Home and Service Infrastructures, demonstrating how fundamental theories, models and algorithms can be exploited to solve real-world problems. This comprehensive and timely book offers a unique and essential reference guide for policymakers, funding bodies, researchers, technology developers and managers, end users, carers, clinicians, healthcare service providers, educators and students, helping them adopt and implement smart assisted living systems. The main objective is to assess the teaching and research capabilities of the candidates. Therefore, the test is aimed at assessing the teaching and general/research aptitude as well as their awareness. They are expected to possess and exhibit cognitive abili-

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ties. Cognitive abilities include comprehension, analysis, evaluation, understanding the structure of arguments and deductive and inductive reasoning. The candidates are also expected to have a general awareness and knowledge of sources of information. They should be aware of interaction between people, environment and natural resources and their impact on quality of life.

"A group of remarkably penetrating, frank, and expert scientists, techno-wizards, activists, and writers raise provocative questions about what is gained and what is lost in a world enthralled by technology in this wonderfully soulful forum on life in the 'Wired World.' "

-BOOKLIST Biotechnology, Cloning, Robotics, Nanotechnology... At a time when scientific and technological breakthroughs keep our eyes focused on the latest software upgrades or the newest cell-phone wizardry, a group of today's most innovative thinkers are looking beyond the horizon to explore both the promise and the peril of our technological future. Human ingenuity has granted us a world of unprecedented personal power -- enabling us to communicate instantaneously with anyone anywhere on the globe, to transport ourselves in both real and virtual worlds to distant places with ease, to fill our bellies with engineered commodities once available to only a privileged elite. Through our technologies, we have sought to free ourselves from the shackles of nature and become its master. Yet science and technology continually transform our experience and society in ways that often seem to be beyond our control. Today, different areas of research and innovation are advancing

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synergistically, multiplying the rate and magnitude of technological and societal change, with consequences that no one can predict. *Living with the Genie* explores the origins, nature, and meaning of such change, and our capacity to govern it. As the power of technology continues to accelerate, who, this book asks, will be the master of whom? In *Living with the Genie*, leading writers and thinkers come together to confront this question from many perspectives, including: Richard Powers's whimsical investigation of the limits of artificial intelligence; Philip Kitcher's confrontation of the moral implications of science; Richard Rhodes's exploration of the role of technology in reducing violence; Shiv Visvanathan's analysis of technology's genocidal potential; Lori Andrews's insights into the quest for human genetic enhancement; Alan Lightman's reflections on how technology changes the experience of our humanness. These and ten other provocative essays open the door to a new dialogue on how, in the quest for human mastery, technology may be changing what it means to be human, in ways we scarcely comprehend. The book systematically introduces the visible light communication (VLC) technology in detail. Basic concepts and how to realize the system are both illustrated, including the transmitter, channel, and the receiver. In addition, a good many experimental results are presented to help readers further understand the VLC technologies. The upper-layer protocols of visible light communication system and the technology trends are also discussed. This book can be a good reference work for researchers, engineers, and graduate students

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in the fields of communications, LED, and optics. Drs. Paul L. Kaufman, Albert Alm, Leonard A Levin, Siv F. E. Nilsson, James Ver Hoeve, and Samuel Wu present the 11th Edition of the classic text Adler's Physiology of the Eye, updated to enhance your understanding of ocular function. This full-color, user-friendly edition captures the latest molecular, genetic, and biochemical discoveries and offers you unparalleled knowledge and insight into the physiology of the eye and its structures. A new organization by function, rather than anatomy, helps you make a stronger connection between physiological principles and clinical practice; and more than 1,000 great new full-color illustrations help clarify complex concepts. Deepen your grasp of the physiological principles that underlie visual acuity, color vision, ocular circulation, the extraocular muscle, and much more. Glean the latest knowledge in the field, including the most recent molecular, genetic, and biochemical discoveries. Make a stronger connection between physiology and clinical practice with the aid of an enhanced clinical emphasis throughout, as well as a new organization by function rather than by anatomy. Better visualize all concepts by viewing 1,000 clear, full-color illustrations.

The revolution in new technology gave rise to new work patterns and improved productivity, all of which affect the management of human resources. Expectations for increased efficiency have not always been fulfilled because of the problems that have arisen in workings of labour relations. How can management maximize the benefits of these technologies while co-operating with

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their employees? How far are trade unions involved in the decisions as companies adopt new technology? Is the workforce consulted in systems design? This book, originally published in 1992 looks at the problems of developing strategies in information technology when considering labour relations. Experts in industrial sociology, human resource management and organizational behaviour assess the achievements and failures, including consideration of issues such as public sector work, gender and race. Drawing on empirical evidence, the contributors cover a wide range of industries including case studies in electronics and banking, together with international comparisons.

Make workplace conflict resolution a game that EVERYBODY wins! Recent studies show that typical managers devote more than a quarter of their time to resolving coworker disputes. The Big Book of Conflict-Resolution Games offers a wealth of activities and exercises for groups of any size that let you manage your business (instead of managing personalities). Part of the acclaimed, bestselling Big Books series, this guide offers step-by-step directions and customizable tools that empower you to heal rifts arising from ineffective communication, cultural/personality clashes, and other specific problem areas—before they affect your organization's bottom line. Let The Big Book of Conflict-Resolution Games help you to: Build trust Foster morale Improve processes Overcome diversity issues And more Dozens of physical and verbal activities help create a safe environment for teams to explore several common forms of conflict—and their resolution. Inexpensive, easy-

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to-implement, and proved effective at Fortune 500 corporations and mom-and-pop businesses alike, the exercises in *The Big Book of Conflict-Resolution Games* delivers everything you need to make your workplace more efficient, effective, and engaged.

The two-volume set LNCS 8521 and 8522 constitutes the refereed proceedings of the Human Interface and the Management of Information thematic track, held as part of the 16th International Conference on Human-Computer Interaction, HCII 2014, held in Heraklion, Greece, in June 2014, jointly with 13 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences were carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. This volume contains papers addressing the following major topics: visualization methods and techniques; multimodal interaction; knowledge management; information search and retrieval; supporting collaboration; design and evaluation methods and studies.

This Science Fiction thriller depicts Eris Monroe, genetically enhanced and a Commander in the Republic Special Forces must unravel a mystery about human destiny before a Galactic War erupts.

This comprehensive study guide covers the complete

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HSC Preliminary Senior Science course and has been specifically created to maximise exam success. This guide has been designed to meet all study needs, providing up-to-date information in an easy-to-use format. The sample HSC Exam has been updated for the new format. Excel HSC Preliminary Senior Science contains: an introductory section including how to use the book and an explanation of the new course helpful study and exam techniques comprehensive coverage of the entire Preliminary and HSC courses hundreds of diagrams to aid understanding icons and boxes to highlight key concepts and assessment skills including laboratory and field work checklists of key terms end of chapter revision questions with fully explained answers a trial HSC-style exam with answers and explanations a glossary of key terms useful websites highlighted throughout

This volume gathers the latest advances, innovations, and applications in the field of intelligent systems such as robots, cyber-physical and embedded systems, as presented by leading international researchers and engineers at the International Conference on Intelligent Technologies in Robotics (ITR), held in Moscow, Russia on October 21-23, 2019. It covers highly diverse topics, including robotics, design and machining, control and dynamics, bio-inspired systems, Internet of Things, Big Data, RFID technology, blockchain, trusted software, cyber-physical systems (CFS) security, development of CFS in manufacturing, protection of information in CFS, cybersecurity of CFS. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary

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collaboration among different specialists, demonstrating that intelligent systems will drive the technological and societal change in the coming decades.

Smart Assisted Living Toward An Open Smart-Home Infrastructure Springer Nature

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The book "Recent Developments in Optoelectronic Devices" is about the latest developments in optoelectronics. This book is divided into three categories: light emitting devices, sensors, and light harvesters. This book also discusses the

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theoretical aspects of device design for iridium complexes as organic light emitting diodes (OLEDs), strategies for developing novel nanostructured materials, silicon-rich oxide (SRO) electroluminescent devices, and multifunctional optoelectronic devices developed on resistive switching effects. The worldwide participation of authors has contributed to the unifying effect of science. Furthermore, interested readers will also find information on the screen printed technology using semiconductor devices, nonlinear phenomena in quantum devices, experimental set up of optoelectronics flexible logic gate to realize logic operations, autonomous vehicles, and the latest developments in perovskites as solar cells.

Presents different surgical techniques to remove cataracts in patients with other pre-existing ocular disorders. Presented as case scenarios, the book covers numerous different conditions including dry eye, uveitis and glaucoma, as well as cataract surgery after other types of eye surgery.

Creating families can no longer be described by heterosexual reproduction in the intimacy of a couple's home and the privacy of their bedroom. To the contrary, babies can be brought into families through complex matrixes involving lawyers, coordinators, surrogates, 'brokers', donors, sellers, endocrinologists, and without any traditional forms of intimacy. In direct response to the need and desire to parent, men, women, and couples - gay and straight - have turned to viable, alternative means: baby markets. This book examines the ways in which Westerners create families through private, market processes. From homosexual couples skirting Mother Nature by going to the assisted reproductive realm and buying the sperm or ova that will complete the reproductive process, to Americans travelling abroad to acquire children in China, Korea, or Ethiopia, market dynamics influence how babies and toddlers come into Western families. Michele

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Goodwin and a group of contributing experts explore how financial interests, aesthetic preferences, pop culture, children's needs, race, class, sex, religion, and social customs influences the law and economics of baby markets. Genre: Alpha and Omega m/m MPreg Caan loves his freedom. It's his biology that troubles him. Omegas like him are a rare breed, but life as an unmated bounty hunter makes him even more of an anomaly in a world of desperate Alphas, eager to mate and impregnate an Omega. On a mission to rescue his biological parent from prison, it's all he can do to evade capture and a lifetime of pregnancy and servitude. But his luck runs out moments before the daring rescue attempt comes to fruition. Graden, a muscled prince on the precipice of being named king, makes a tempting offer that will change his circumstances. Unbeknownst to them, it may also turn the tables on the bounty hunter as well. Note: The Omega's Unexpected Bounty is a complete standalone non-shifter mpreg (male pregnancy) story. This science fiction romance novel contains steamy descriptions of beach time encounters with a muscled bounty hunter and a alien prince with a HEA, no cheating, and no cliffhangers.

This book is a collection of the best papers originally presented as state-of-the-art reports or tutorials at the Eurographics '91 conference in Vienna. A choice has been made giving priority to timeless information. Another goal was to cover all aspects of computer graphics - except hardware - as completely as possible from modelling to advanced visualization and communication. The ten contributions by internationally renowned experts fulfil this goal perfectly. Some important problem areas treated from different viewpoints thus enhancing and deepening the reader's perspective.

Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on

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enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org.

Presents nearly one thousand entries and 750 illustrations on science and technology, with bibliographies after each entry and sidebars containing relevant facts.

Why attractive things work better and other crucial insights into human-centered design Emotions are inseparable from how we humans think, choose, and act. In Emotional Design, cognitive scientist Don Norman shows how the principles of human psychology apply to the invention and design of new technologies and products. In The Design of Everyday Things, Norman made the definitive case for human-centered design, showing that good design demanded that the user's must take precedence over a designer's aesthetic if anything, from light switches to airplanes, was going to work as the user needed. In this book, he takes his thinking several steps farther, showing that successful design must incorporate not just what users need, but must address our minds by attending to our visceral reactions, to our behavioral choices, and to the stories we want the things in our lives to tell others about ourselves. Good human-centered design isn't just about making effective tools that are straightforward to use; it's about making affective tools that mesh well with our emotions and help us express our identities and support our

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social lives. From roller coasters to robots, sports cars to smart phones, attractive things work better. Whether designer or consumer, user or inventor, this book is the definitive guide to making Norman's insights work for you.

First released in the Spring of 1999, *How People Learn* has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do—with curricula, classroom settings, and teaching methods—to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. *How People Learn* examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities

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for teachers. A realistic look at the role of technology in education.

Although ceramics have been known to mankind literally for millennia, research has never ceased. Apart from the classic uses as a bulk material in pottery, construction, and decoration, the latter half of the twentieth century saw an explosive growth of application fields, such as electrical and thermal insulators, wear-resistant bearings, surface coatings, lightweight armour, and aerospace materials. In addition to plain, hard solids, modern ceramics come in many new guises such as fabrics, ultrathin films, microstructures and hybrid composites. Built on the solid foundations laid down by the 20-volume series *Materials Science and Technology*, *Ceramics Science and Technology* picks out this exciting material class and illuminates it from all sides. Materials scientists, engineers, chemists, biochemists, physicists and medical researchers alike will find this work a treasure trove for a wide range of ceramics knowledge from theory and fundamentals to practical approaches and problem solutions.

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