

Why  
Computers  
Get Cheaper  
and Health  
Care Doesn't

# THE COST DISEASE

William J. Baumol

with contributions by  
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and LILIAN GOMORY WU

# [DOC] The Cost Disease: Why Computers Get Cheaper And Health Care Doesn't

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**The Cost Disease**-William J. Baumol 2012-09-25 The exploding cost of health care in the United States is a source of widespread alarm. Similarly, the upward spiral of college tuition fees is cause for serious concern. In this concise and illuminating book, well-known economist William J. Baumol explores the causes of these seemingly intractable problems and offers a surprisingly simple explanation. Baumol identifies the "cost disease" as a major source of rapidly rising costs in service sectors of the economy. Once we understand that disease, he explains, effective responses become apparent. Baumol presents his analysis with characteristic clarity, tracing the fast-rising prices of health care and education in the U.S. and other major industrial nations, then examining the underlying causes of the phenomenon, which have to do with the nature of providing labor-intensive services. The news is good, Baumol reassures, because the nature of the disease is such that society will be able to afford the rising costs.

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**The Cost Disease**-William J. Baumol 2013-09-24 Traces the fast-rising prices of health care and education in the United States and other major industrial nations, examining the underlying causes which have to do with the nature of providing labor-intensive services.

**The College Cost Disease**-Robert E. Martin 2011-01-01 College cost per student has been on the rise at a pace that matches - or exceeds - healthcare costs. Unlike healthcare, though, teaching quality has declined, and rapidly rising costs and declining quality are not trends easily forgiven by society. The College Cost Disease addresses these problems, providing a behavioral framework for the chronic cost/quality consequences with which higher education is fraught. Providing many compelling insights into the issues plaguing higher education, Robert Martin expounds upon H. R. Bowen's revenue theory of cost by detailing experience good theory, the principal/agent problem, and non-profit status. Reputation competition dominates higher education. Students and their parents, and public opinion in general, associate higher tuition with higher quality and greater accolades; price is used as a proxy for quality only when consumers are uncertain about quality prior to purchase. Higher education services are the most complex types of 'experience goods'; a service whose quality can only be determined after a purchase has been made. Applying formal economic theory to higher education, Robert Martin examines how and why attempts to control costs are controversial and the damaging effects these controversies have on institutions' reputations. Arguing that the college access problem cannot be solved until colleges and universities find a way to control their costs, this book brings to the fore the leading ideas that will bring about much-needed budgetary reform in higher education.

**Baumol's Cost Disease**-William J. Baumol 1997 With the publication of *Performing Arts: an Economic Dilemma* in 1966, economists Baumol and Bowen created the subject of cultural economics. This text provides an insight into the development of Baumol's analysis and perception of the problems of the arts and other labour-intensive sectors.

**Challengers, Competition, and Reelection**-Jonathan S. Krasno 1997-02-01 Why do US Senators have a harder time winning re-election than members of the House of Representatives? This text argues that Senate challengers are more likely to be experienced politicians who wage intense, costly media campaigns than are those who take on House

incumbents.

**Why Does College Cost So Much?**-Robert B. Archibald 2014-08 For much of the past century college tuition has risen more rapidly than the inflation rate. Unlike many analyses of higher education, Archibald and Feldman show how broad economic factors have combined to push up cost. These forces are largely out of the control of colleges and universities.

**Online Sex Talk and the Social World**-Chrystie Mykietiak 2020-10-09 This book develops a feminist and queer linguistic account of the construction of sex, sexuality, and desire through a linguistic and discursive analysis of naturally occurring sex talk from an online community. Critical discourse analysis is used to analyse a corpus of data drawn from incidental sex 'talk' observed in the community over the course of an 18-month period. Sub-types of sex talk that are examined include cybersex, self-disclosure, confidences, joking, games, flirting, and automated sexual commands that 'generate' sex between participants. The book will be of use to students and researchers interested in the language of gender and sexuality, as well as feminist and queer accounts of technology and sexual communication.

**The Role of Telehealth in an Evolving Health Care Environment**-Institute of Medicine 2012-12-20 In 1996, the Institute of Medicine (IOM) released its report *Telemedicine: A Guide to Assessing Telecommunications for Health Care*. In that report, the IOM Committee on Evaluating Clinical Applications of Telemedicine found telemedicine is similar in most respects to other technologies for which better evidence of effectiveness is also being demanded. Telemedicine, however, has some special characteristics-shared with information technologies generally-that warrant particular notice from evaluators and decision makers. Since that time, attention to telehealth has continued to grow in both the public and private sectors. Peer-reviewed journals and professional societies are devoted to telehealth, the federal government provides grant funding to promote the use of telehealth, and the private technology industry continues to develop new applications for telehealth. However, barriers remain to the use of telehealth modalities, including issues related to reimbursement, licensure, workforce, and costs. Also, some areas of telehealth have developed a stronger evidence base than others. The Health Resources and Service Administration (HRSA) sponsored the IOM in holding a workshop in Washington, DC, on August 8-9 2012, to examine how the use of telehealth technology can fit into the U.S. health care system. HRSA asked the IOM to focus on the potential for telehealth to serve geographically isolated individuals and extend the reach of scarce resources while also emphasizing the quality and value in the delivery of health care services. This workshop summary discusses the evolution of telehealth since 1996, including the increasing role of the private sector, policies that have promoted or delayed the use of telehealth, and consumer acceptance of telehealth. *The Role of Telehealth in an Evolving Health Care Environment: Workshop Summary* discusses the current evidence base for telehealth, including available data and gaps in data; discuss how technological developments, including mobile telehealth, electronic intensive care units, remote monitoring, social networking, and wearable devices, in conjunction with the push for electronic health records, is changing the delivery of health care in rural and urban environments. This report also summarizes actions that the U.S. Department of Health and Human Services (HHS) can undertake to further the use of telehealth to improve health care outcomes while controlling costs in the current health care environment.

**Ethical and Legal Considerations in Mitigating Pandemic Disease**-Institute of Medicine 2007-07-08 In recent public workshops and working group meetings, the Forum on Microbial Threats of the Institute of Medicine (IOM) has examined a variety of infectious disease outbreaks with pandemic potential, including those caused by influenza (IOM, 2005) and severe acute respiratory syndrome (SARS) (IOM, 2004). Particular attention

has been paid to the potential pandemic threat posed by the H5N1 strain of avian influenza, which is now endemic in many Southeast Asian bird populations. Since 2003, the H5N1 subtype of avian influenza has caused 185 confirmed human deaths in 11 countries, including some cases of viral transmission from human to human (WHO, 2007). But as worrisome as these developments are, at least they are caused by known pathogens. The next pandemic could well be caused by the emergence of a microbe that is still unknown, much as happened in the 1980s with the emergence of the human immunodeficiency virus (HIV) and in 2003 with the appearance of the SARS coronavirus. Previous Forum meetings on pandemic disease have discussed the scientific and logistical challenges associated with pandemic disease recognition, identification, and response. Participants in these earlier meetings also recognized the difficulty of implementing disease control strategies effectively. Ethical and Legal Considerations in Mitigating Pandemic Disease: Workshop Summary as a factual summary of what occurred at the workshop.

**Introduction to Applied Linear Algebra**-Stephen Boyd 2018-06-07 A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

**Cloud Computing**-Dan C. Marinescu 2013-05-30 Cloud Computing: Theory and Practice provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems Get a detailed hands-on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in-depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large-scale distributed computing

**Coffee**-Robert W. Thurston 2013-10-10 Coffee: A Comprehensive Guide to the Bean, the Beverage, and the Industry offers a definitive guide to the many rich dimensions of the bean and the beverage around the world. Leading experts from business and academia consider coffee's history, global spread, cultivation, preparation, marketing, and the environmental and social issues surrounding it today. They discuss, for example, the impact of globalization; the many definitions of organic, direct trade, and fair trade; the health of female farmers; the relationships among shade, birds, and coffee; roasting as an art and a science; and where profits are made in the commodity chain. Drawing on interviews and the lives of people working in the business—from pickers and roasters to coffee bar owners and consumers—this book brings a compelling human side to the story. The authors avoid romanticizing or demonizing any group in the business. They consider basic but widely misunderstood issues such as who adds value to the bean, the constraints of peasant life, and the impact of climate change. Moving beyond simple answers, they represent various participants in the supply chain and a range of opinions about problems and suggested solutions in the industry. Coffee offers a multidimensional examination of a deceptively everyday but extremely complex commodity that remains at the center of many millions of lives. Tracing coffee's journey from field to cup, this handbook to one of the world's favorite beverages is an essential guide for professionals, coffee lovers, and students alike. Contributions by: Sarah Allen, Jonathan D. Baker, Peter S. Baker, Jonathan Wesley Bell, Clare Benfield, H. C. "Skip" Bittenbender, Connie Blumhardt, Willem Boot, Carlos H. J. Brando, August Burns, Luis Alberto Cuéllar, Olga Cuellar, Kenneth Davids, Jim Fadden, Elijah K. Gichuru, Jeremy Haggard, Andrew Hetzel, George Howell, Juliana Jaramillo, Phyllis Johnson, Lawrence W. Jones, Alf Kramer, Ted Lingle, Stuart McCook, Michelle Craig McDonald, Sunalini Menon, Jonathan Morris, Joan Obra, Price Peterson, Rick Peyser, Sergii Reminny, Paul Rice, Robert Rice, Carlos Saenz, Vincenzo Sandalj, Jinap Selamat, Colin Smith, Shawn Steiman, Robert W. Thurston, Steven Topik, Tatsushi Ueshima, Camilla C. Valeur, Geoff Watts, and Britta Zeitemann

**Advancing Disease Modeling in Animal-Based Research in Support of Precision Medicine**-National Academies of Sciences, Engineering, and Medicine 2018-05-29 Precision medicine is focused on the individual and will require the rapid and accurate identification and prioritization of

causative factors of disease. To move forward and accelerate the delivery of the anticipated benefits of precision medicine, developing predictable, reproducible, and reliable animal models will be essential. In order to explore the topic of animal-based research and its relevance to precision medicine, the National Academies of Sciences, Engineering, and Medicine convened a 2-day workshop on October 5 and 6, 2017. The workshop was designed to focus on the development, implementation, and interpretation of model organisms to advance and accelerate the field of precision medicine. Participants examined the extent to which next-generation animal models, designed using patient data and phenotyping platforms targeted to reveal and inform disease mechanisms, will be essential to the successful implementation of precision medicine. This publication summarizes the presentations and discussions from the workshop.

**Radiology Illustrated: Chest Radiology**-Kyung Soo Lee 2013-11-29 The purpose of this atlas is to illustrate how to achieve reliable diagnoses when confronted by the different abnormalities, or "disease patterns", that may be visualized on CT scans of the chest. The task of pattern recognition has been greatly facilitated by the advent of multidetector CT (MDCT), and the focus of the book is very much on the role of state-of-the-art MDCT. A wide range of disease patterns and distributions are covered, with emphasis on the typical imaging characteristics of the various focal and diffuse lung diseases. In addition, clinical information relevant to differential diagnosis is provided and the underlying gross and microscopic pathology is depicted, permitting CT-pathology correlation. The entire information relevant to each disease pattern is also tabulated for ease of reference. This book will be an invaluable handy tool that will enable the reader to quickly and easily reach a diagnosis appropriate to the pattern of lung abnormality identified on CT scans.

**The Perilous Life of Symphony Orchestras**-Robert J. Flanagan 2012-01-24 This book analyzes the economic challenges facing symphony orchestras and contrasts the experience of orchestras in the United States (where there is little direct government support) and abroad (where governments typically provide large direct subsidies). Robert J. Flanagan explains the tension between artistic excellence and financial jeopardy that confronts most symphony orchestras. He analyzes three complementary strategies for addressing orchestras' economic challenges—raising performance revenues, slowing the growth of performance expenses, and increasing nonperformance income—and demonstrates that none of the three strategies alone is likely to provide economic security for orchestras.

**Why Can't I Get Better?**-Richard Horowitz 2013-11-12 A groundbreaking reference about diagnosing Lyme disease and chronic illness traces the heated debate that has prevented patients from obtaining adequate care, outlining the author's plan for identifying and treating chronic illness using methods for promoting best-possible outcomes.

**Family Nurse Practitioner Certification Intensive Review**-Maria T. Codina Leik 2013-08-12 Print+CourseSmart

**They Made America**-David Lefer 2009-03-03 An illustrated history of American innovators -- some well known, some unknown, and all fascinating -- by the author of the bestselling *The American Century*.

**Blockchain for Distributed Systems Security**-Sachin S. Shetty 2019-03-05 AN ESSENTIAL GUIDE TO USING BLOCKCHAIN TO PROVIDE FLEXIBILITY, COST-SAVINGS, AND SECURITY TO DATA MANAGEMENT, DATA ANALYSIS, AND INFORMATION SHARING Blockchain for Distributed Systems Security contains a description of the properties that underpin the formal foundations of Blockchain technologies and explores the practical issues for deployment in cloud and Internet of Things (IoT) platforms. The authors—noted experts in the field—present security and privacy issues that must be addressed for Blockchain technologies to be adopted for civilian and military domains. The book covers a range of topics including data provenance in cloud storage, secure IoT models, auditing architecture, and empirical validation of permissioned Blockchain platforms. The book's security and privacy analysis helps with an understanding of the basics of Blockchain and it explores the quantifying impact of the new attack surfaces introduced by Blockchain technologies and platforms. In addition, the book contains relevant and current updates on the topic. This important resource: Provides an overview of Blockchain-based secure data management and storage for cloud and IoT Covers cutting-edge research findings on topics including invariant-based supply chain protection, information sharing framework, and trust worthy information federation Addresses security and privacy concerns in Blockchain in key areas, such as

preventing digital currency miners from launching attacks against mining pools, empirical analysis of the attack surface of Blockchain, and more. Written for researchers and experts in computer science and engineering, *Blockchain for Distributed Systems Security* contains the most recent information and academic research to provide an understanding of the application of Blockchain technology.

**Disease Control Priorities, Third Edition (Volume 3)**-Hellen Gelband 2015-10-29 Volume 3, *Cancer*, presents the complex patterns of cancer incidence and death around the world and evidence on effective and cost-effective ways to control cancers. The DCP3 evaluation of cancer will indicate where cancer treatment is ineffective and wasteful, and offer alternative cancer care packages that are cost-effective and suited to low-resource settings. Main messages from the volume include: -Quality matters in all aspects of cancer treatment and palliation. -Cancer registries that track incidence, mortality, and survival + paired with systems to capture causes of death are important to understanding the national cancer burden and the effect of interventions over time. -Effective interventions exist at a range of prices. Adopting "resource appropriate" measures which allow the most effective treatment for the greatest number of people will be advantageous to countries. -Prioritizing resources toward early stage and curable cancers is likely to have the greatest health impact in low income settings. -Research prioritization is no longer just a global responsibility. Providing cancer treatment requires adequate numbers of trained healthcare professionals and infrastructure beyond what is available in most LMICs, especially low income countries. Careful patient monitoring is a requirement of good quality cancer care and this often involves laboratory tests in addition to clinical examination. Even if financing were immediately available to build or expand a cancer control system, reaching capacity will take many years.

**Concepts of Biology**-Samantha Fowler 2018-01-07 *Concepts of Biology* is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, *Concepts of Biology* is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of *Concepts of Biology* is that instructors can customize the book, adapting it to the approach that works best in their classroom. *Concepts of Biology* also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

**Learning by Doing**-James Bessen 2015-01-01 Technology is constantly changing our world, leading to more efficient production. In the past, technological advancements dramatically increased wages, but during the last three decades, the median wage has remained stagnant. Many of today's machines have taken over the work of humans, destroying old jobs while increasing profits for business owners and raising the possibility of ever-widening economic inequality. Author James Bessen argues that avoiding this fate will require unique policies to develop the knowledge and skills necessary to implement the rapidly evolving technologies. At present this technical knowledge is mostly unstandardized and difficult to acquire, learned through job experience rather than in classrooms. Nor do current labor markets generally provide strong incentives for learning on the job. Basing his analysis on intensive research into economic history as well as today's labor markets, the author explores why the benefits of technology take years, sometimes decades, to emerge. Although the right policies can hasten this process, policy has moved in the wrong direction in recent decades, protecting politically influential interests to the detriment of emerging technologies and broadly shared prosperity.

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**Difficult Men**-Brett Martin 2013-06-27 A revealing look at the shows that helped TV emerge as the signature art form of the twenty-first century. In the late 1990s and early 2000s, the landscape of television began an

unprecedented transformation. While the networks continued to chase the lowest common denominator, a wave of new shows on cable channels dramatically stretched television's narrative inventiveness, emotional resonance, and artistic ambition. Combining deep reportage with cultural analysis and historical context, Brett Martin recounts the rise and inner workings of a genre that represents not only a new golden age for TV, but also a cultural watershed. *Difficult Men* features extensive interviews with all the major players, including David Chase, David Simon, David Milch, and Alan Ball; in addition to other writers, executives, directors and actors. Martin delivers never-before-heard story after story, revealing how cable television became a truly significant and influential part of our culture.

**The COVID-19 Pandemic**-Tapas Kumar Koley 2020-09-01 This volume presents a comprehensive account of the COVID-19 pandemic, also known as the novel coronavirus pandemic, as it happened. Originating in China in late 2019, the COVID-19 outbreak spread across the entire world in a matter of three to four months. This volume examines the first responses to the pandemic, the contexts of earlier epidemics and the epidemiological basics of infectious diseases. Further, it discusses patterns in the spread of the disease; the management and containment of infections at the personal, national and global level; effects on trade and commerce; the social and psychological impact on people; the disruption and postponement of international events; the role of various international organizations like the WHO in the search for solutions; and the race for a vaccine or a cure. Authored by a medical professional and an economist working on the frontlines, this book gives a nuanced, verified and fact-checked analysis of the COVID-19 pandemic and its global response. A one-stop resource on the COVID-19 outbreak, it is indispensable for every reader and a holistic work for scholars and researchers of medical sociology, public health, political economy, public policy and governance, sociology of health and medicine, and paramedical and medical practitioners. It will also be a great resource for policymakers, government departments and civil society organizations working in the area.

**Assessing Genetic Risks**-Institute of Medicine 1994-01-01 Raising hopes for disease treatment and prevention, but also the specter of discrimination and "designer genes," genetic testing is potentially one of the most socially explosive developments of our time. This book presents a current assessment of this rapidly evolving field, offering principles for actions and research and recommendations on key issues in genetic testing and screening. Advantages of early genetic knowledge are balanced with issues associated with such knowledge: availability of treatment, privacy and discrimination, personal decisionmaking, public health objectives, cost, and more. Among the important issues covered: Quality control in genetic testing. Appropriate roles for public agencies, private health practitioners, and laboratories. Value-neutral education and counseling for persons considering testing. Use of test results in insurance, employment, and other settings.

**Her Heart Can See**-Edith L. Blumhofer 2005-05-12 Fanny J. Crosby (1820-1915) was the most prolific of all American hymn writers. Having lost her sight in infancy through a doctor's negligence, Fanny went on to compose more than 9,000 hymns, as well as various other songs, cantatas, and lyrical productions. Crosby's hymns, including such all-time favorites as "Blessed Assurance," continue to be sung around the world. She was also involved with New York City's rescue missions and with other benevolent efforts. She rubbed shoulders with the likes of Henry Clay, Grover Cleveland, Winfield Scott, Dwight L. Moody, Ira Sankey, Jenny Lind, P. T. Barnum, and many other famous figures who people these pages. Drawing on primary sources, including thousands of unpublished manuscripts, Blumhofer sorts fact from fiction in the life of this remarkable nineteenth-century northeastern Protestant woman, in the process showing why "this diminutive woman" was so beloved.--From publisher description.

**Food Choices**-Robin F. Brancato 2010-03-19 There are a host of books on dieting, nutrition, cooking, and all other areas related to food, yet books targeted to teens tend to emphasize weight and the dangers of unhealthy eating. *Food Choices: The Ultimate Teen Guide* provides teens with a new look at food and eating. In this book, author Robin Brancato chooses not to dwell on food-related pathologies like anorexia, bulimia, or obesity. Instead, she guides teens into a greater knowledge and enjoyment of food and healthy eating. This book discusses numerous topics related to food and eating, including the biological and chemical reasons we prefer certain foods and the eating habits that are unique to teens today. This book also covers the latest medical research, the vast amount of literature on weight loss and dieting, and the cultural influences that affect what food we eat. Throughout, teens are presented with the best tips on how to develop healthy eating habits for a lifetime of enjoying food.

**Unaccountable**-Marty Makary 2013-10-15 A New York Times Bestseller

**Manual on Livestock Disease Surveillance and Information Systems-**

1999 Defining importance of diseases; FAO/EMPRES: a new emphasis; Early detection; The need for surveillance; What is surveillance?; Surveillance on the ground; Putting a surveillance system in place; Surveillance for what?; Surveillance when and how?; Surveillance in resource-poor countries; Information systems; Setting the goals; Determining needs and outputs; Computerisation; Questionnaire design; Databases; Data quality control; Feedback; The role of GIS; Motivating and training field staff; Awareness creation among decision-makers; Using surveillance as a management tool; FAO involvement in surveillance and information systems development; Examples of questionnaires.

**Programming Quantum Computers**-Eric R. Johnston 2019-07-03

Quantum computers are set to kick-start a second computing revolution in an exciting and intriguing way. Learning to program a Quantum Processing Unit (QPU) is not only fun and exciting, but it's a way to get your foot in the door. Like learning any kind of programming, the best way to proceed is by getting your hands dirty and diving into code. This practical book uses publicly available quantum computing engines, clever notation, and a programmer's mindset to get you started. You'll be able to build up the intuition, skills, and tools needed to start writing quantum programs and solve problems that you care about.

**More Sex is Safer Sex**-Steven E. Landsburg 2008-09-04 With his long-running 'Everyday Economics' column in Slate and his popular book, *The Armchair Economist*, Steven Landsburg has been leading the pack of economists who are transforming their science from a drab meditation on graphs and charts into a fascinating window on human nature. Now he's back and more provocative than ever with surprises on virtually every page. In *More Sex is Safer Sex*, Professor Landsburg offers readers a series of stimulating discussions that all flow from one unsettling fact. Combining the rational decisions of each of us often produces an irrational result for all of us. Avoiding casual sex can actually encourage the spread of diseases. To solve population pressures, we need more people. In his tantalizing, entertaining narrative, Landsburg guides us through these shocking notions by the light of compelling logic and evidence and makes suggestions along the way: Why not charge juries if a convicted felon is exonerated? Why not let firemen keep the property they rescue? As entertaining as it is inflammatory, *More Sex is Safer Sex* will make readers think about their decisions in unforgettable ways -- and spark debate over much that we all take for granted.

**Condensazione Di Bose-Einstein Nei Gas Atomici**-International School of Physics Enrico Fermi 1999 Although first proposed by Einstein in 1924, Bose-Einstein condensation (BEC) in a gas was not achieved until 1995 when, using a combination of laser cooling and trapping, and magnetic trapping and evaporation, it was first observed in rubidium and then in lithium and sodium, cooled down to extremely low temperatures. This book brought together many leaders in both theory and experiment on Bose-Einstein condensation in gases. Their lectures provided a detailed coverage of the experimental techniques for the creation and study of BEC, as well as the theoretical foundation for understanding the properties of this novel system. This volume provides the first systematic review of the field and the many developments that have taken place in the past three years.

**Pathophysiology**-McCance

**The Role of Human Factors in Home Health Care**-National Research Council 2010-11-14 The rapid growth of home health care has raised many unsolved issues and will have consequences that are far too broad for any one group to analyze in their entirety. Yet a major influence on the safety, quality, and effectiveness of home health care will be the set of issues encompassed by the field of human factors research--the discipline of applying what is known about human capabilities and limitations to the design of products, processes, systems, and work environments. To address these challenges, the National Research Council began a multidisciplinary study to examine a diverse range of behavioral and human factors issues resulting from the increasing migration of medical devices, technologies, and care practices into the home. Its goal is to lay the groundwork for a thorough integration of human factors research with the design and implementation of home health care devices, technologies, and practices. On October 1 and 2, 2009, a group of human factors and other experts met

to consider a diverse range of behavioral and human factors issues associated with the increasing migration of medical devices, technologies, and care practices into the home. This book is a summary of that workshop, representing the culmination of the first phase of the study.

**Deep Learning and Neural Networks: Concepts, Methodologies, Tools, and Applications**-Management Association, Information Resources 2019-10-11 Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries. It is necessary to develop new techniques for managing data in order to ensure adequate usage. Deep learning, a subset of artificial intelligence and machine learning, has been recognized in various real-world applications such as computer vision, image processing, and pattern recognition. The deep learning approach has opened new opportunities that can make such real-life applications and tasks easier and more efficient. *Deep Learning and Neural Networks: Concepts, Methodologies, Tools, and Applications* is a vital reference source that trends in data analytics and potential technologies that will facilitate insight in various domains of science, industry, business, and consumer applications. It also explores the latest concepts, algorithms, and techniques of deep learning and data mining and analysis. Highlighting a range of topics such as natural language processing, predictive analytics, and deep neural networks, this multi-volume book is ideally designed for computer engineers, software developers, IT professionals, academicians, researchers, and upper-level students seeking current research on the latest trends in the field of deep learning.

**AMA Manual of Style: A Guide for Authors and Editors**-JAMA and Archives Journals, 2009-07-02 The *AMA Manual of Style* is a must-have guide for those seeking to publish research findings and anyone involved in medical or scientific publishing. But more than just a style manual, it offers guidance on how to navigate the dilemmas that authors, researchers and their institutions, medical editors and publishers, and members of the news media who cover scientific research confront on a daily basis. Written by an expert committee of JAMA and Archives editors, this 10th edition thoroughly covers ethical and legal issues, authorship, conflicts of interest, scientific misconduct, and intellectual property, in addition to preparation of articles for publication, style, terminology, measurement, and quantification. Customers who purchase the Special Online Bundle Package receive the hardcover 10th edition, as well as a one-year subscription to the Online Edition.

**The Givers**-David Callahan 2017 An inside look at the secretive world of elite philanthropists--and how they're quietly wielding ever more power to shape American life in ways both good and bad. While media attention focuses on famous philanthropists such as Bill Gates and Charles Koch, thousands of donors are at work below the radar promoting a wide range of causes. David Callahan charts the rise of these new power players and the ways they are converting the fortunes of a second Gilded Age into influence. He shows how this elite works behind the scenes on education, the environment, science, LGBT rights, and many other issues--with deep impact on government policy. Above all, he shows that the influence of the Givers is only just beginning, as new waves of billionaires like Mark Zuckerberg turn to philanthropy. Based on extensive research and interviews with countless donors and policy experts, this is not a brief for or against the Givers, but a fascinating investigation of a power shift in American society that has implications for us all.

**I Hear a Song in My Head**-Nergesh Tejani 2012 Set in Uganda of the sixties with bookends in India and New York, this doctor's story tells of a turbulent political time when colonial Uganda graduated to self-rule. It is also the personal story of an Indian woman living in an independent African country wanting and needing assimilation but regretfully recognizing rejection. It is the story of the exhilaration of living in a country more beautiful than Eden, if sometimes a threatened Eden. But most of all it tells doctoring tales made delicate by seeing them through the heart. It was a time in medicine before evidential imperatives removed the romance. "Dr. Tejani's unique meld of skill and compassion radiates throughout this text which will touch both physician and lay readers alike." --Frank A. Chervenak, M.D., New York Weill Cornell Medical Center. "With clarity, drama, and humor, this book creates a family story, a picture of an African nation in the throes of political upheaval, and an original and illuminating view of medical needs and practices in circumstances that exist today in many parts of the world. The complex harmonies of the song in Dr. Tejani's head will resonate for a wide variety of readers." --Carol Sicherman, Professor Emerita of English, City University of New York, and author of *Becoming an African University: Makerere 1922-2000*. "Nergesh Tejani is a terrific writer... Her stories are compelling and I think will be of great

interest to the general reader and the medical reader alike. Her subject is often exotic, often with international themes and full of pithy observations and wisdom." --Abraham Verghese, M.D., Professor of the Theory and Practice of Medicine, Stanford University Medical Center.