Before Disrupting Healthcare

Properly performing health care systems require concepts and methods that match their complexity. Resilience engineering provides that capability. It focuses on a system's overall ability to sustain required operations under both expected and unexpected conditions rather than on individual features or qualities. This book contains contributions from international experts in health care, organisational studies and patient safety, as well as resilience engineering. Whereas current safety approaches primarily aim to reduce the number of things that go wrong, Resilient Health Care aims to increase the number of things that go right.

Health Tech: Rebooting Society's Software, Hardware and Mindset fulfills the need for actionable insight on what's truly driving change and how to become a changemaker, not just affected by it. The book introduces anybody who wishes to understand how global healthcare will change in the next decade to the key technologies, social dynamics, and systemic shifts that are shaping the future. Healthcare futurist, investor, and entrepreneur Trond Arne Undheim describes the complex history of public health, why it's so complicated and what the major challenges are right now. He includes a discussion of COVID, why it happened, the cultural factors that have slowed down traditional public health measures, and how innovation can help. He also discusses what is happening in health systems around the world as a result of the pandemic. The

book explores certain health tech measures, tools (basic medical devices gradually being upgraded and digitally enhanced), processes, and innovations that are already working well along with others that are in their infancy, such as AI, wearables, robotics, sensors, and digital therapeutics. The book describes the movers and shakers in the healthcare system of the future, from startups to patient and service providers, as well as the health challenges of our time, including pandemics, aging, preventive healthcare, and much more. The book concludes with a look at how health tech may bring about the biggest opportunity to transform healthcare for decades to come.

"From a giant of health care policy, an engaging and enlightening account of why American health care is so expensive -- and why it doesn't have to be. Uwe Reinhardt was a towering figure and moral conscience of health care policy in the United States and beyond. Famously bipartisan, he advised presidents and Congress on health reform and originated central features of the Affordable Care Act. In Priced Out, Reinhardt offers an engaging and enlightening account of today's U.S. health care system, explaining why it costs so much more and delivers so much less than the systems of every other advanced country, why this situation is morally indefensible, and how we might improve it. The problem, Reinhardt says, is not one of economics but of social ethics. There is no American political consensus on a fundamental question other countries settled long ago: to what extent should we be our brothers' and sisters' keepers when it comes to health care? Drawing on the best evidence, he guides

readers through the chaotic, secretive, and inefficient way America finances health care, and he offers a penetrating ethical analysis of recent reform proposals. At this point, he argues, the United States appears to have three stark choices: the government can make the rich help pay for the health care of the poor, ration care by income, or control costs. Reinhardt proposes an alternative path: that by age 26 all Americans must choose either to join an insurance arrangement with community-rated premiums, or take a chance on being uninsured or relying on a health insurance market that charges premiums based on health status. An incisive look at the American health care system, Priced Out dispels the confusion, ignorance, myths, and misinformation that hinder effective reform." --

Health-Care Solutions from a Distant Shore Health care in the United States and other nations is on a collision course with patient needs and economic reality. For more than a decade, leading thinkers, including Michael Porter and Clayton Christensen, have argued passionately for value-based health-care reform: replacing delivery based on volume and fee-for-service with competition based on value, as measured by patient outcomes per dollar spent. Though still a pipe dream here in the United States, this kind of value-based competition is already a reality--in India. Facing a giant population of poor, underserved people and a severe shortage of skills and capacity, some resourceful private enterprises have found a way to deliver high-quality health care, at ultra-low prices, to all patients who need it. This book shows how the innovations

developed by these Indian exemplars are already being practiced by some far-sighted US providers--reversing the typical flow of innovation in the world. Govindarajan and Ramamurti, experts in the phenomenon of reverse innovation, reveal four pathways being used by health-care organizations in the United States to apply Indian-style principles to attack the exorbitant costs, uneven quality, and incomplete access to health care. With rich stories and detailed accounts of medical professionals who are putting these ideas into practice, this book shows how value-based delivery can be made to work in the United States. This "bottom-up" change doesn't require a grand plan out of Washington, DC, agreement between entrenched political parties, or coordination among all players in the health-care system. It needs entrepreneurs with innovative ideas about delivering value to patients. Reverse innovation has worked in other industries. We need it now in health care.

Models, Strategies, Tools
A Bold New Path to Living Your Best Life at Every Age
The Future of the Public's Health in the 21st Century
Reverse Innovation in Health Care
Leadership Lessons in Healthcare, Business, and Beyond
Healthcare Disrupted
Service Business Model Innovation in Healthcare and Hospital Management

A groundbreaking prescription for health care reform--from a

legendary leader in innovation . . . Our health care system is in critical condition. Each year, fewer Americans can afford it, fewer businesses can provide it, and fewer government programs can promise it for future generations. We need a cure, and we need it now. Harvard Business School's Clayton M. Christensen—whose bestselling The Innovator's Dilemma revolutionized the business world—presents The Innovator's Prescription, a comprehensive analysis of the strategies that will improve health care and make it affordable. Christensen applies the principles of disruptive innovation to the broken health care system with two pioneers in the field—Dr. Jerome Grossman and Dr. Jason Hwang. Together, they examine a range of symptoms and offer proven solutions. YOU'LL DISCOVER HOW "Precision medicine" reduces costs and makes good on the promise of personalized care Disruptive business models improve quality, accessibility, and affordability by changing the way hospitals and doctors work Patient networks enable better treatment of chronic diseases Employers can change the roles they play in health care to compete

effectively in the era of globalization Insurance and regulatory reforms stimulate disruption in health care
Ready to take your IT skills to the healthcare industry? This concise book provides a candid assessment of the US healthcare system as it ramps up its use of electronic health records (EHRs) and other forms of IT to comply with the government's Meaningful Use requirements. It's a tremendous opportunity for tens of thousands of IT professionals, but it's also a huge challenge: the program requires a complete makeover of archaic records systems, workflows, and other practices now in place. This book points out how hospitals and doctors' offices differ from other organizations that use IT, and explains what's necessary to bridge the gap between clinicians and IT staff. Get an overview of EHRs and the differences among medical settings Learn the variety of ways institutions deal with patients and medical staff, and how workflows vary Discover healthcare's dependence on paper records, and the problems involved in migrating them to digital documents Understand how providers charge for care, and how they get

paid Explore how patients can use EHRs to participate in their own care Examine healthcare's most pressing problem—avoidable errors—and how EHRs can both help and exacerbate it

The book proposes a new relationship between people and their doctors, fostering self-efficacy so that people can be empowered to manage their own health and live happier, healthier lives. It gives practical advice and provides an accessible, challenging, thought-provoking view of how medical practice needs to change to become person focused. Artificial Intelligence (AI) in Healthcare is more than a comprehensive introduction to artificial intelligence as a tool in the generation and analysis of healthcare data. The book is split into two sections where the first section describes the current healthcare challenges and the rise of AI in this arena. The ten following chapters are written by specialists in each area, covering the whole healthcare ecosystem. First, the AI applications in drug design and drug development are presented followed by its applications in the field of cancer

diagnostics, treatment and medical imaging. Subsequently, the application of AI in medical devices and surgery are covered as well as remote patient monitoring. Finally, the book dives into the topics of security, privacy, information sharing, health insurances and legal aspects of AI in healthcare. Highlights different data techniques in healthcare data analysis, including machine learning and data mining Illustrates different applications and challenges across the design, implementation and management of intelligent systems and healthcare data networks Includes applications and case studies across all areas of AI in healthcare data
The Health of a Nation: America's Biggest Gamble
The Price We Pay
Pathways to Health Equity
Disrupt Aging
Endocrine-Disrupting Chemicals
Who Killed HealthCare?: America's $2 Trillion Medical Problem - and the Consumer-Driven Cure
The Path to Continuously Learning Health Care in America

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.
LEARN TO HARNESS AN UNCONVENTIONAL TOOL FOR LEADERSHIP SUCCESS. As the president and chief executive officer of Kindred Healthcare

LLC, Ben Breier has witnessed massive disruptions to the healthcare industry. Gaining an early understanding of how to survive disruptions on the baseball field proved to be invaluable when he entered this challenging field. Using techniques honed over the course of his leadership career, Ben has been able to not only survive disruptions but thrive using intentional disruption as a business strategy. Learning to harness the power of disruption and use it in an intentional way became the key to his success in business. This is not a technical business book; it's an emotional leadership survival guide that speaks to the trend in emerging leaders to be connected to a mission rather than just a salary. This book, written for today's leaders and tomorrow's emerging leaders, examines how disruptions have the power to control us unless we develop the skills and tools needed to control them.

Revision of: Austin and Boxerman's information systems for healthcare management.-- 7th ed. / Gerald L. Glandon, Detlev H. Smaltz, Donna J. Slovensky. 2008.

Just Medicine offers us a new, effective, and innovative plan to regulate implicit biases and eliminate the inequalities they cause, and to save the lives they endanger. Over 84,000 black and brown lives are needlessly lost each year due to health disparities, the unfair, unjust, and avoidable

differences between the quality and quantity of health care provided to Americans who are members of racial and ethnic minorities and care provided to whites. Health disparities have remained stubbornly entrenched in the American health care system—and in Just Medicine Dayna Bowen Matthew finds that they principally arise from unconscious racial and ethnic biases held by physicians, institutional providers, and their patients. Implicit bias is the single most important determinant of health and health care disparities. Because we have missed this fact, the money we spend on training providers to become culturally competent, expanding wellness education programs and community health centers, and even expanding access to health insurance will have only a modest effect on reducing health disparities. We will continue to utterly fail in the effort to eradicate health disparities unless we enact strong, evidence-based legal remedies that accurately address implicit and unintentional forms of discrimination, to replace the weak, tepid, and largely irrelevant legal remedies currently available. Our continued failure to fashion an effective response that purges the effects of implicit bias from American health care, Matthew argues, is unjust and morally untenable. In this book, she unites medical, neuroscience, psychology, and sociology research on implicit bias and health disparities with her own expertise in civil rights and constitutional law.

Artificial Intelligence in Healthcare
Resilient Health Care
Where Does It Hurt?
Frugal Innovation in Healthcare
How Targeting Low-Income Markets Leads to Disruptive Innovation
The Quest of Dr. Paul Farmer, a Man Who Would Cure the World
Lean Design in Healthcare

America's health care system has become too complex and
costly to continue business as usual. Best Care at Lower
Cost explains that inefficiencies, an overwhelming amount of
data, and other economic and quality barriers hinder
progress in improving health and threaten the nation's
economic stability and global competitiveness. According to
this report, the knowledge and tools exist to put the health
system on the right course to achieve continuous improvement
and better quality care at a lower cost. The costs of the
system's current inefficiency underscore the urgent need for
a systemwide transformation. About 30 percent of health
spending in 2009--roughly $750 billion--was wasted on

unnecessary services, excessive administrative costs, fraud, and other problems. Moreover, inefficiencies cause needless suffering. By one estimate, roughly 75,000 deaths might have been averted in 2005 if every state had delivered care at the quality level of the best performing state. This report states that the way health care providers currently train, practice, and learn new information cannot keep pace with the flood of research discoveries and technological advances. About 75 million Americans have more than one chronic condition, requiring coordination among multiple specialists and therapies, which can increase the potential for miscommunication, misdiagnosis, potentially conflicting interventions, and dangerous drug interactions. Best Care at Lower Cost emphasizes that a better use of data is a critical element of a continuously improving health system, such as mobile technologies and electronic health records that offer significant potential to capture and share health data better. In order for this to occur, the National Coordinator for Health Information Technology, IT

developers, and standard-setting organizations should ensure that these systems are robust and interoperable. Clinicians and care organizations should fully adopt these technologies, and patients should be encouraged to use tools, such as personal health information portals, to actively engage in their care. This book is a call to action that will guide health care providers; administrators; caregivers; policy makers; health professionals; federal, state, and local government agencies; private and public health organizations; and educational institutions. Instructor Resources: Test bank, PowerPoint slides for each chapter, and suggested answers to discussion questions. Management problems are complex and rarely fixed with a single, universal solution. Particularly in healthcare organizations, management is fluid, and the "right" approach depends on a variety of ever-changing factors. Management of Healthcare Organizations: An Introduction provides an integrated, practical approach to management that is applicable to all kinds of healthcare organizations. The

book prepares future managers and leaders to assess situations and develop solutions with confidence. Author Peter C. Olden combines extensive real-world management experience with academic expertise to explain fundamental management theories, concepts, methods, and tools and how to apply them in healthcare organizations. Adopting a student-centered approach, he uses a fresh, engaging style and clear organization of content supported by many exhibits, sidebars, and an appealing design. Although primarily intended for undergraduate students interested in managing healthcare organizations, this book is also a valuable resource for allied health majors and practicing healthcare managers. This edition has been updated extensively with three new case studies; current examples, exercises, and data; and new or expanded information on these and other topics: Population health and the continuum of careStrategic planningHorizontal process organizingDiversity and inclusionObtaining and retaining staffLeading and motivating peoplePerformance improvement, Six Sigma, and

LeanOrganizational change management methodsProfessionalism and emotional intelligenceEach chapter begins with learning objectives and a real-world example based on an extended, contemporary case study that runs through the book and connects all the chapters. The book also features an end-of-chapter mini case study and seven integrative case studies. These cases enable students to use concepts and methods from multiple chapters to fully resolve a given management problem, reinforcing the chapters' concepts. Chapter summaries and discussion questions offer additional learning opportunities. The writing style and activities help students learn management as an integrated body of knowledge and tools they can use in their careers. Whether you are new to healthcare management or are looking to advance your career, Management of Healthcare Organizations teaches the fundamental principles and skills needed to successfully manage a healthcare organization.

This book focuses on how companies are innovating with regard to the Bottom-of-the-Pyramid (BOP) ? the lowest socio-

economic segment, and the organizational conditions they
need to be successful. The authors use several examples of
disruptive innovations for this market, particularly in the
Indian healthcare sector. Low-cost, specialty hospital
chains like Aravind Eye Care and Narayana Hrudayalaya have
brought down the cost of certain medical procedures
significantly. The Indian conglomerate Tata Group and the
American healthcare giant GE Healthcare have also developed
affordable products targeted at the lowest-income segments
in India. The authors present an in-depth analysis of these
companies and present their insightful results on disruptive
innovation and the ever-challenging BOP market.
Thinkers50 Management Thinker of 2015 Whitney Johnson wants
you to consider this simple, yet powerful, idea: disruptive
companies and ideas upend markets by doing something truly
different--they see a need, an empty space waiting to be
filled, and they dare to create something for which a market
may not yet exist. As president and cofounder of Rose Park
Advisors' Disruptive Innovation Fund with Clayton

Christensen, Johnson used the theory of disruptive innovation to invest in publicly traded stocks and private early-stage companies. In Disrupt Yourself, she helps you understand how the frameworks of disruptive innovation can apply to your particular path, whether you are: a self-starter ready to make a disruptive pivot in your business a high-potential individual charting your career trajectory a manager looking to instill innovative thinking amongst your team a leader facing industry changes that make for an uncertain future We are living in an era of accelerating disruption; no one is immune. Johnson makes the compelling case that managing the S-curve waves of learning and mastery is a requisite skill for the future. If you want to be successful in unexpected ways, follow your own disruptive path. Dare to innovate. Do something astonishing. Disrupt yourself.
Where Does it Hurt?
How to Make Value-Based Delivery Work
Health Tech

Health 4.0

The Future of Healthcare

Applied Virtual Reality and Healthcare

A Journey to Improve Quality and Process of Care

This book demonstrates how to successfully manage and lead healthcare institutions by employing the logic of business model innovation to gain competitive advantages. Since clerk-like routines in professional organizations tend to overlook patient and service-centered healthcare solutions, it challenges the view that competition and collaboration in the healthcare sector should not only incorporate single-end services, therapies or diagnosis related groups. Moreover, the authors focus on holistic business models, which place greater emphasis on customer needs and put customers and patients first. The holistic business models approach addresses topics such as business operations, competitiveness, strategic business objectives, opportunities and threats, critical success factors and key performance indicators. The contributions cover various aspects of service business innovation such as reconfiguring the hospital business model in healthcare delivery, essential characteristics of service business model innovation in healthcare, guided business modeling and analysis for business professionals, patient-driven service delivery models in healthcare, and continuous and co-creative business model creation. All of the contributions introduce business models and strategies, process innovations, and

toolkits that can be applied at the managerial level, ensuring the book will be of interest to healthcare professionals, hospital managers and consultants, as well as scholars, whose focus is on improving value-generating and competitive business architectures in the healthcare sector.

NEW YORK TIMES BESTSELLER • "[A] masterpiece . . . an astonishing book that will leave you questioning your own life and political views."—USA Today "If any one person can be given credit for transforming the medical establishment's thinking about health care for the destitute, it is Paul Farmer. . . . [Mountains Beyond Mountains] inspires, discomforts, and provokes."—The New York Times (Best Books of the Year) In medical school, Paul Farmer found his life's calling: to cure infectious diseases and to bring the lifesaving tools of modern medicine to those who need them most. Tracy Kidder's magnificent account shows how one person can make a difference in solving global health problems through a clear-eyed understanding of the interaction of politics, wealth, social systems, and disease. Profound and powerful, Mountains Beyond Mountains takes us from Harvard to Haiti, Peru, Cuba, and Russia as Farmer changes people's minds through his dedication to the philosophy that "the only real nation is humanity." WINNER OF THE LETTRE ULYSSES AWARD FOR THE ART OF REPORTAGE

This book gives the reader an inside look at creating a new healthcare service using

practical examples and scenarios one would face if doing it themselves. This book chronicles the journey of a fictitious healthcare delivery organization using the Simpler Design System principles based on Lean methodologies. While the characters and actual story is fictitious, it is based on the journey many healthcare systems and clients have taken, the issues they have faced, and the successes and failures they've had. Tools and approaches used are based on the actual work of Simpler. The story format engages readers and is intended to motivate and inspire executive teams to use the tenets of the book as a guide to launch their own successful implementation of an idea-to-launch methodology. Tools include those gleaned from actual application of Lean Product Development, Agile, Design for Six Sigma, and Design Thinking Principles. Through engaging storytelling and practical theory, this book is written from the perspective of a physician leader that agrees to be the executive sponsor for a service redesign. As the story progresses, the sponsor becomes fascinated with the process and becomes the first VP of Innovation within his organization.

This book provides comprehensive coverage of the three most important themes in the field of Endocrine Disrupting Chemicals (EDC) research: the basic biology of EDCs, particularly their effects on reproductive systems; EDC effects on humans and wildlife, including biomedical considerations; and potential interventions and practical advice for dealing with the problem of EDCs.

The Innovator's Prescription: A Disruptive Solution for Health Care
Next Generation Business Models and Strategies
Before Disrupting Healthcare
Management of Healthcare Organizations
Intentional Disruption
Putting the Power of Disruptive Innovation to Work
Big Data for Improved Health Outcomes

New York Times bestseller Business Book of the Year--Association of Business Journalists From the New York Times bestselling author comes an eye-opening, urgent look at America's broken health care system--and the people who are sav it--now with a new Afterword by the author. "A must-read for every American." --Steve Forbes, editor-in-chief, FORBES One in five Americans now has medical debt in collections and rising health care costs today threaten every small busin America. Dr. Makary, one of the nation's leading health care experts, travels acro America and details why health care has become a bubble. Drawing from on-the-ground stories, his research, and his own experience, The Price We Pay paints a vivid picture of the business of medicine and its elusive money games in need of serious shake-up. Dr. Makary shows how so much of health care spending goes things that have nothing to do with health and what you can do about it. Dr.

Makary challenges the medical establishment to remember medicine's noble
heritage of caring for people when they are vulnerable. The Price We Pay offers
road map for everyday Americans and business leaders to get a better deal on t
health care, and profiles the disruptors who are innovating medical care. The
movement to restore medicine to its mission, Makary argues, is alive and well--a
mission that can rebuild the public trust and save our country from the crushing
cost of health care.
Our healthcare system is prohibitively expensive. Fortunately, artificial intelligen
big data, machine learning, blockchain, the internet of things and wearable
technologies are revolutionizing the way that we look at healthcare. The future
healthcare is coming. This is what it looks like.
Leadership for Evidence-Based Innovation in Nursing and Health Professions,
Second Edition takes a patient-centered approach, discusses the perspectives o
dynamic of innovation and evidence as well as emerging competencies for leader
healthcare innovation, making it the ideal textbook for DNP and Masters level
leadership courses.
"Casino Healthcare is not a theoretical policy book for the elite, but a book that
penetrates the blanket of fog surrounding a major - and growing - household
expense. With the research and style of an investigative journalist, the book is e

"During a time of tremendous change and uncertainty, Healthcare Disrupted gives executives a framework and language to determine how they will evolve their products, services, and strategies to flourish in a increasingly value-based healthcare system. Using a powerful mix of real world examples and unanswered questions, Elton and O'Riordan lead you to see that 'no action' is not an option—and push you to answer the most important question: 'What is your role in this digitally driven change and how can your firm can gain competitive advantage and lead?'"—David Epstein, Division Head, Novartis Pharmaceuticals "Healthcare Disrupted is an inspirational call-to-action for everyone associated with healthcare, especially the innovators who will develop the next generation of

therapeutics, diagnostics, and devices."—Bob Horvitz, Ph.D., David H. Koch Professor of Biology, MIT; Nobel Prize in Physiology or Medicine "In a time of dizzying change across all fronts: from biology, to delivery, to the use of big data, Health Disrupted captures the impact of these forces and thoughtfully develops new approaches to value creation in the healthcare industry. A must-read for those who strive to capitalize on change and reinvent the industry."—Deborah Dunsire, M.D., president and CEO, FORUM Pharmaceuticals Healthcare at a Crossroad: Seismic Shifts, New Business Models for Success Healthcare Disrupted is an in-depth look at the disruptive forces driving change in the the healthcare industry and provides guide for defining new operating and business models in response to these profound changes. Based on original research conducted by Accenture and years of experience working with the most successful companies in the industry, healthcare experts Jeff Elton and Anne O'Riordan provide an informed, insightful view of the state of the industry, what's to come, and new emerging business models for life sciences companies play a different role from the past in to driving superior outcomes for patients and playing a bigger role in creating greater value for healthcare overall. Their book explains how critical global

healthcare trends are challenging legacy strategies and business models, and examines why historical leaders in the industy must evolve, to stay relevant and compete with new entrants. Healthcare Disrupted captures this pivotal point in time to give executives and senior managers across pharmaceutical, biopharmaceutical, medical device, medical diagnostics, digital technology, and health services companies an opportunity to step back and consider the changing landscape. This book gives companies options for how to adapt and stay relevant and outlines four new business models that can drive sustainable growth and performance. It demonstrates how real-world data (from Electronic Medical Records, health wearables, Internet of Things, digital media, social media, and other sources) is combining with scalable technologies and advanced analytics to fundamentally change how and where healthcare is delivered, bridging to the health of populations, and broadening the resposibility for both. It reveals how this shift in healthcare delivery will significantly improve patient outcomes and the value health systems realize.

The CEO of Athenahealth reflects on his journey from ambulance driver to CEO of one of the nation's fastest-growing tech companies to outline a blueprint for improving the current health-care system through innovation,

less regulation and a wider range of customer choices.

The anthrax incidents following the 9/11 terrorist attacks put the spotlight on the nation's public health agencies, placing it under an unprecedented scrutiny that added new dimensions to the complex issues considered in this report. The Future of the Public's Health in the 21st Century reaffirms the vision of Healthy People 2010, and outlines a systems approach to assuring the nation's health in practice, research, and policy. This approach focuses on joining the unique resources and perspectives of diverse sectors and entities and challenges these groups to work in a concerted, strategic way to promote and protect the public's health. Focusing on diverse partnerships as the framework for public health, the book discusses: The need for a shift from an individual to a population-based approach in practice, research, policy, and community engagement. The status of the governmental public health infrastructure and what needs to be improved, including its interface with the health care delivery system. The roles nongovernment actors, such as academia, business, local communities and the media can play in creating a healthy nation. Providing an accessible analysis, this book will be important to public health policy-makers and practitioners, business and community leaders, health

advocates, educators and journalists.
Before Disrupting HealthcareWhat Innovators Need to KnowHealthcare
DisruptedNext Generation Business Models and StrategiesJohn Wiley &
Sons
Life Disrupted
An Entrepreneur's Guide to Fixing Health Care
Humans and Machines Partnering for Better Outcomes
Leadership for Evidence-Based Innovation in Nursing and Health
Professions
Priced Out
Disrupt Yourself
Getting Real About Chronic Illness in Your Twenties and Thirties
Explore the theory and practical applications of artificial intelligence (AI) and machine
learning in healthcare. This book offers a guided tour of machine learning algorithms,
architecture design, and applications of learning in healthcare and big data challenges.
You'll discover the ethical implications of healthcare data analytics and the future of AI
in population and patient health optimization. You'll also create a machine learning
model, evaluate performance and operationalize its outcomes within your organization.
Machine Learning and AI for Healthcare provides techniques on how to apply machine

learning within your organization and evaluate the efficacy, suitability, and efficiency of AI applications. These are illustrated through leading case studies, including how chronic disease is being redefined through patient-led data learning and the Internet of Things. What You'll LearnGain a deeper understanding of key machine learning algorithms and their use and implementation within wider healthcare Implement machine learning systems, such as speech recognition and enhanced deep learning/AI Select learning methods/algorithms and tuning for use in healthcare Recognize and prepare for the future of artificial intelligence in healthcare through best practices, feedback loops and intelligent agentsWho This Book Is For Health care professionals interested in how machine learning can be used to develop health intelligence ⏤ with the aim of improving patient health, population health and facilitating significant care-payer cost savings.

Data governance is broken. It's time we fix it. Why is data governance so ineffective? The truth is data governance programs aren't designed for the way we run our data teams, they aren't even designed for a modern organization at all. They were designed when reports still came through inter-office mail. The flow of data into, within, and out of today's organizations is a tsunami breaking through rigid data governance methods. Yet our programs still rely on that command and control approach. Have you ever tried to control a tsunami? Every organization that uses data knows that they need a data governance program. Data literacy efforts and legislation like GDPR have become the

bellwethers for our governance functions. But we still sit in data governance meetings without enough people and too many questions to move things forward. There's no agility to the program because we imply a degree of frailty to the data that doesn't exist. We continue to insist on archaic methods that bring no value to our organizations. Achieving deep insights from data can't happen without good governance practices. All indicators point to the need to create a resilient and responsive data governance function. Where we go from here, and how we achieve success in data governance requires a radically different way. The hard truth: it's time to challenge everything we know about data governance. Laura Madsen shows you how to redefine governance for the modern age. With a casual, witty style Madsen taps on her decades of experience, shares interviews with other best-in-field experts and grounds her perspective in research. Witness where it all fell apart, challenge long-held beliefs, and commit to a fundamental shift—that governance is not about stopping or preventing usage but about supporting the usage of data. Be able to bring back trust and value to our data governance functions, and learn the: · People-driven approach to governance · Processes that support the tsunami of data · Cutting edge technology that's enabling data governance

Twenty-seven-year-old Laurie Edwards is one of 125 million Americans who have a chronic illness, in her case a rare genetic respiratory disease. Because of medical advances in the treatment of serious childhood diseases, 600,000 chronically ill teens

enter adulthood every year who decades ago would not have survived-they and people diagnosed in adulthood face the same challenges of college, career, and starting a family as others in their twenties and thirties, but with the added circumstance of having chronic illness. Life Disrupted is a personal and unflinching guide to living well with a chronic illness: managing your own health care without letting it take over your life, dealing with difficult doctors and frequent hospitalizations, having a productive and satisfying career that accommodates your health needs, and nurturing friendships and a loving, committed relationship regardless of recurring health problems. Laurie Edwards also addresses the particular needs of people who have more than one chronic illness or who are among the twenty-five million Americans with a rare disorder. She shares her own story and the experiences of others with chronic illness, as well as advice from life coaches, employment specialists, and health professionals. Reading Life Disrupted is like having a best friend and mentor who truly does know what you're going through.

"AI is all around us. Self-driving cars. Smart personal assistants-think Siri, Cortana, or Google Now-or Alexa, Amazon's cloud-based voice service that is available on literally hundreds of millions of devices. Voice-to-text. Manufacturing robots. Facial recognition software. Security surveillance. Automated financial investing and social media monitoring. Smart homes that control themselves when their owners are out of town. The list is endless. "All of the above make life easier for us. But in this new book by

Moneyball Medicine author/podcaster Harry Glorikian, the spotlight is on how AI can (and will, and in many cases already does) make us healthier." -from the Foreword to The Future You by Dr. Bob Arnot Do you have a smartphone and a wearable device, such as an Apple Watch or a Fitbit? Most likely yes, right? Well, then, as Glorikian tells us, there are already numerous apps available for download that " ... can also continuously monitor temperature, calorie intake, blood glucose, menstruation cycle, respiration rate, stress levels, brain waves, or just about any other aspect of physical and mental health you want." They identify areas where improvement is needed, and tell us how to improve our health in those areas.
Communities in Action
Rebooting Society's Software, Hardware and Mindset
The Digital Transformation of Healthcare
America's $1.5 Trillion Dollar Medical Problem--and the Consumer-Driven Cure
Machine Learning and AI for Healthcare
We Can Fix Healthcare in America

A renowned authority from Harvard Business School confronts America's health care crisis-and how consumer control can fix it PRAISE FOR WHO KILLED HEALTHCARE? "A brilliant analysis... A must-read." — Bill George, Professor, Harvard Business School

and Former CEO of Medtronic "As it becomes more and more obvious to everyone that our current health care system is unsustainable, this is the book that had to be written." — Daniel H. Johnson, Jr. MD, former president of the American Medical Association "Regina Herzlinger's ideas to tackle the crisis of the U.S. health care system are based on keen knowledge of the system's existing difficulties along with insights that introduce the reader to new streamlined choices that have the potential of getting both quantity and cost under control." — Joseph Kennedy, founder, chairman, and president, Citizens Energy Corporation, CEO, Citizens Health Care, former representative (D-Mass) "Regina Herzlinger... offers a vision of the way things can be, should be, and will be sooner or later. The only question is: how long do we have to wait?" — Greg Scandlen, founder, Consumers for Health Choices "Regi Herzlinger has brilliantly articulated a better way — embracing the principles of competition and innovation that cause every other sector of our economy to thrive. Discharging American health care from the ICU can only happen by putting individual Americans — not politicians and bureaucrats — back in charge of

their health care decisioins." — U.S. Senator Tom Coburn (R-
Okla), M.D. "Following on the heels of her landmark Market-
Driven Health Care, Herzlinger lays it on the line with her
expose of what many who work in the health care industry have
felt in their gut. Now it is articulated in an entertaining and
must-read portrayal, with you and me as the only way out." —
Dennis White, executive vice president for strategic
development, National Business Coalition on Health "A wonderful
Orwellian romp through issues which carry a deadly irony. The
killers of health care are, of course, the third parties, each
of which has an itchy palm and a commitment to profit or power
which exceeds the commitment to service, with each engaging the
others within a politically shaped box. Rarely has the case for
the public been made with so much force, foresight, and wit, and
a better way forward shown so clearly." — James F. Fries, MD,
Professor of Medicine, Stanford University School of Medicine
"You can practically hear the war chants as Professor Herzlinger
sets out her view of what's wrong with the health care system
and how to fix it. You'd best read it so you can decide which
side you will be on when the battle is joined." — Paul Levy,

CEO, Beth Israel Hospital, Boston, MA "Regina Herzlinger, the nation's leading expert on consumer-driven health care, has given us a brilliant analysis of the flaws in our health care system and what it will take to get it back on track. Her latest book is a must-read." — Bill George, Professor of Management Practice, Harvard Business School, Former CEO, Medtronic, and author of Authentic Leadership "You don't have to agree with her diagnosis and prescription for the U.S. health care system, but you do have to read her book. Once again, Professor Herzlinger has put together a well researched, well written, and very provocative blueprint for the future of health care." Peter L. Slavin, MD, President, Massachusetts General Hospital A bold new remedy for the sprawling and wasteful health care industry. Where else but the doctor's office do you have to fill out a form on a clipboard? Have you noticed that hospital bills are almost unintelligible, except for the absurdly high dollar amount? Why is it that technology in other industries drives prices down, but in health care it's the reverse? And why, in health care, is the customer so often treated as a mere bystander—and an ignorant one at that? The same American medical

establishment that saves lives and performs wondrous miracles is also a $2.7 trillion industry in deep dysfunction. And now, with the Affordable Care Act (Obamacare), it is called on to extend full benefits to tens of millions of newly insured. You might think that this would leave us with a bleak choice— either to devote more of our national budget to health care or to make do with less of it. But there's another path. In this provocative book, Jonathan Bush, cofounder and CEO of athenahealth, calls for a revolution in health care to give customers more choices, freedom, power, and information, and at far lower prices. With humor and a tell-it-likeit- is style, he picks up insights and ideas from his days as an ambulance driver in New Orleans, an army medic, and an entrepreneur launching a birthing start-up in San Diego. In struggling to save that dying business, Bush's team created a software program that eventually became athenahealth, a cloud-based services company that handles electronic medical records, billing, and patient communications for more than fifty thousand medical providers nationwide. Bush calls for disruption of the status quo through new business models, new payment models, and new technologies that give

patients more control of their care and enhance the physicianpatient experience. He shows how this is already happening. From birthing centers in Florida to urgent care centers in West Virginia, upstarts are disrupting health care by focusing on efficiency, innovation, and customer service. Bush offers a vision and plan for change while bringing a breakthrough perspective to the debates surrounding Obamacare. You'll learn how: • Well-intended government regulations prop up overpriced incumbents and slow the pace of innovation. • Focused, profit-driven disrupters are chipping away at the dominance of hospitals by offering routine procedures at lower cost. • Scrappy digital start-ups are equipping providers and patients with new apps and technologies to access medical data and take control of care. • Making informed choices about the care we receive and pay for will enable a more humane and satisfying health care system to emerge. Bush's plan calls for Americans not only to demand more from providers but also to accept more responsibility for our health, to weigh risks and make hard choices—in short, to take back control of an industry that is central to our lives and our economy.

Health 4.0 is a term that has derived from the Fourth Industrial Revolution (Industry 4.0), as it pertains to the healthcare industry. This book offers a novel, concise, but at the same time, broad picture of the challenges that the technological revolution has created for the healthcare system. It offers a comprehensive view of health sector actors' interaction with the emerging new technology, which is disrupting the status quo in health service delivery. It explains how these technological developments impact both society and healthcare governance. Further, the book addresses issues related to key healthcare system stakeholders: the state, patients, medical professionals, and non-governmental organizations. It also examines areas of healthcare system adaptiveness and draws its conclusions by analysing recent health policy changes in different countries across the Americas, Europe, and Asia. The authors offer an innovative approach to the subject by identifying the critical determinants of successful implementation of the Fourth Industrial Revolution's outcomes in practice, on both a macro- and microlevel. The macrolevel analysis is focused on essential factors of healthcare system adaptiveness for Health 4.0, while

the microlevel relates to patients' expectations with a particular emphasis on senior citizens. The book will appeal to academics, researchers, and students, across a wide range of disciplines, such as health economics, health sciences, public policy, public administration, political science, public governance, and sociology. It will also find an audience among healthcare professionals and health and social policymakers due to its recommendations for implementing Industry 4.0 into a healthcare system.
Hacking Healthcare
Disrupting the Future of Medical Practice
Best Care at Lower Cost
Positive Medicine
Information Systems for Healthcare Management
From Basic Research to Clinical Practice
An Introduction