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When you visit the doctor, information about you may be recorded in an office computer. Your tests may be sent to a laboratory or consulting physician. Relevant information may be transmitted to your health insurer or pharmacy. Your data may be collected by the state government or by an organization that accredits health care or studies medical costs. By making information more readily available to those who need it, greater use of computerized health information can help improve the quality of health care and reduce its costs. Yet health care organizations must find ways to ensure that electronic health information is not improperly divulged. Patient privacy has been an issue since the oath of Hippocrates first called on physicians to "keep silence" on patient matters, and with highly sensitive data--genetic information, HIV test results, psychiatric records--entering patient records, concerns over privacy and security are growing. For the Record responds to the health care industry's need for greater guidance in protecting health information that increasingly flows through the national information infrastructure--from patient to provider, payer, analyst, employer, government agency, medical product manufacturer, and beyond. This book makes practical detailed recommendations for technical and organizational solutions and national-level initiatives. For the Record describes two major types of privacy and security concerns that stem from the availability of health information in electronic form: the increased potential for inappropriate release of information held by individual organizations (whether by those with access to computerized records or those who break into them) and systemic concerns derived from open and widespread sharing of data among various parties. The committee reports on the technological and organizational aspects of security management, including basic principles of security; the effectiveness of technologies for user authentication, access control, and encryption;
obstacles and incentives in the adoption of new technologies; and mechanisms for training, monitoring, and enforcement. For the Record reviews the growing interest in electronic medical records; the increasing value of health information to providers, payers, researchers, and administrators; and the current legal and regulatory environment for protecting health data. This information is of immediate interest to policymakers, health policy researchers, patient advocates, professionals in health data management, and other stakeholders.

For the Record - National Research Council - 1997-07-09
When you visit the doctor, information about you may be recorded in an office computer. Your tests may be sent to a laboratory or consulting physician. Relevant information may be transmitted to your health insurer or pharmacy. Your data may be collected by the state government or by an organization that accredits health care or studies medical costs. By making information more readily available to those who need it, greater use of computerized health information can help improve the quality of health care and reduce its costs. Yet health care organizations must find ways to ensure that electronic health information is not improperly divulged. Patient privacy has been an issue since the oath of Hippocrates first called on physicians to "keep silence" on patient matters, and with highly sensitive data--genetic information, HIV test results, psychiatric records--entering patient records, concerns over privacy and security are growing. For the Record responds to the health care industry's need for greater guidance in protecting health information that increasingly flows through the national information infrastructure--from patient to provider, payer, analyst, employer, government agency, medical product manufacturer, and beyond. This book makes practical detailed recommendations for technical and organizational solutions and national-level initiatives. For the Record describes two major types of
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This User’s Guide is intended to support the design, implementation, analysis, interpretation, and quality evaluation of registries created to increase understanding of patient outcomes. For the purposes of this guide, a patient registry is an organized system that uses observational study methods to collect uniform data (clinical and other) to evaluate specified outcomes for a population defined by a particular disease, condition, or exposure, and that serves one or more predetermined scientific, clinical, or policy purposes. A registry database is a file (or files) derived from the registry. Although registries can serve many purposes, this guide focuses on registries created for one or more of the following purposes: to describe the natural history of disease, to

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The Computer-Based Patient Record - Institute of Medicine - 1997-10-14
Most industries have plunged into data automation, but health care organizations have lagged in moving patients’ medical records from paper to computers. In its first edition, this book presented a blueprint for introducing the computer-based patient record (CPR). The revised edition adds new information to the original book. One section describes recent developments, including the creation of a computer-based patient record institute. An international chapter highlights what is new in this still-emerging technology. An expert committee explores the potential of machine-readable CPRs to improve diagnostic and care decisions, provide a database for policymaking, and much more, addressing these key questions: Who uses patient records? What technology is available and what further research is necessary to meet users' needs? What should government, medical organizations, and others do to make the transition to CPRs? The volume also explores such issues as privacy and confidentiality, costs, the need for training, legal barriers to CPRs, and other key topics.
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**Electronic Health Records**
World Health Organization. Regional Office for the Western Pacific - 2006
This manual has been designed as a basic reference for use when exploring the development and implementation of electronic health record (EHR) systems. It provides a general overview, some basic definitions and examples of EHR practices. Also covered are points for consideration when moving towards the introduction of an EHR, some issues and challenges which may need to be addressed and some possible strategies, along with steps and activities to implementation. There is a particular focus on setting goals, revising policies, developing an action plan and outlining implementation procedures.

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**Creating Value with Science and Technology** - Eliezer Geisler - 2001
Geisler argues that the value of science and technology for corporations, society, and the economy outweigh the negative impacts that inevitably arise. This remarkable new book shows that the benefits can be measured and evaluated, compiling all existing knowledge on the subject of assessment and including Geisler's own methods. The result is a compelling argument that science and technology has been, ultimately, a positive force for individuals, organizations, and nations.

**Computers in Small Bytes** - Nancy Whitman - 2000
The lessons in this valuable workbook provide a foundation for understanding the computer world & reflect the changes essential to being literate in computers & information use. Employing healthcare models, this book is as easily adaptable to introductory computer
Courses for health professionals as to classes in nursing fundamentals or administration. Computers in Small Bytes explains hardware, popular software programs, operating systems, research applications, & computer assisted communication, including sections on information access, evaluation and use, & the Worldwide Web.

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**Fundamentals of Clinical Data Science** - Pieter Kubben - 2018-12-21
This open access book comprehensively covers the fundamentals of clinical data science, focusing on data collection, modelling and clinical applications. Topics covered in the first section on data collection include: data sources, data at scale (big data), data stewardship (FAIR data) and related privacy concerns. Aspects of predictive modelling using techniques such as classification, regression or clustering, and prediction model validation will be covered in the second section. The third section covers aspects of (mobile) clinical decision support systems, operational excellence and value-based healthcare. Fundamentals of Clinical Data Science is an essential resource for healthcare professionals and IT consultants intending to develop and refine their skills in personalized medicine, using solutions based on large datasets from electronic health records or
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**Biomedical Informatics** - Edward H. Shortliffe
- 2013-12-02
The practice of modern medicine and biomedical research requires sophisticated information technologies with which to manage patient information, plan diagnostic procedures, interpret laboratory results, and carry out investigations. Biomedical Informatics provides both a conceptual framework and a practical inspiration for this swiftly emerging scientific discipline at the intersection of computer science, decision science, information science, cognitive science, and biomedicine. Now revised and in its third edition, this text meets the growing demand by practitioners, researchers, and students for a
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**Clinical Information Systems** - Bruce I. Blum - 2013-07-29
As its name implies, this book
deals with clinical information systems. The clinical information system (or CIS) is an automated system with a long term database containing clinical information used for patient care. This definition excludes business systems (no clinical data), physiological monitoring systems (no long term database), and many research systems (not used in patient care). The theses of this book are (a) that CIS technology is mature, (b) that the CIS will have a major impact upon patient care and the health delivery system, and (c) that the number of commercial systems which now offer these potential benefits is very small. The objective of this book is to establish the above theses and thereby (a) inform both users and developers, (b) increase the demand for more sophisticated products, and finally, (c) provide marketplace incentives to advance the state of the art. The CIS is an application of computer technology for a specific class of problems. Its development requires a knowledge of the technology with an understanding of the application area. As with any tool-based application, the scope of the product will be limited by the capability of the tool. In the case of the CIS, reliable computers with comprehensive database facilities became commercially available in the early 1970s. By the mid 1970s there was a maturation of the literature, and evaluations of 5-years' use began to appear. As will be shown, there have been surprisingly few new ideas introduced since the 1970s.

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**Ethical Challenges in the Management of Health Information** - Laurinda B. Harman - 2001
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**Role Development in Professional Nursing**
Practice - Kathleen Masters - 2015-11-18
Role Development in Professional Nursing Practice, Fourth Edition continues to leverage the Nurse of the Future competency model and maintains a focus on the socialization of the professional role.

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The Art of Installation and the Science of Implementation - Thomas F. Shubnell, Ph.d. - 2007-06-01
The practice of implementation project management needs to change from the old art form to a new science that is success driven and replicable. This book provides a bridge over the chasm of failure to the realm of success. It describes a practical and useful methodology that is flexible to use and a great reference guide for both veteran project managers and newcomers. It is specific to software implementations but the project management techniques can be applied to a variety of projects. Included are tools, techniques, lists, questions, and examples that can be used every day. The methodology presented has been honed from experience, academics, and common sense. It celebrates the people and process elements of project management and relegates technology to its rightful place as a tool.

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Role Development Professional Nursing Practice - Kathleen Masters - 2018-12-01
Role Development in Professional Nursing Practice, Fifth Edition focuses on the progression of the professional nursing role, addressing teamwork and collaboration, communication, leadership, quality improvement and safety, evidence-based practice and informatics.

Health Data in the Information Age - Institute of Medicine - 1994-01-01
Regional health care databases are being established around the country with the goal of providing timely and useful information to policymakers, physicians, and patients. But their emergence is raising important and sometimes controversial questions about the collection, quality, and appropriate use of health care data. Based on experience with databases now in operation and in development, Health Data in the Information Age provides a clear set of guidelines and principles for exploiting the potential benefits of aggregated health data--without jeopardizing confidentiality. A panel of
experts identifies characteristics of emerging health database organizations (HDOs). The committee explores how HDOs can maintain the quality of their data, what policies and practices they should adopt, how they can prepare for linkages with computer-based patient records, and how diverse groups from researchers to health care administrators might use aggregated data. Health Data in the Information Age offers frank analysis and guidelines that will be invaluable to anyone interested in the operation of health care databases.

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**Protecting Privacy in Computerized Medical Information** - 1993

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Patients and medical professionals alike are slowly growing into the digital advances that are revolutionizing the ways that medical records are maintained in addition to the delivery of healthcare services. As technology continues to advance, so do the applications of technological innovation within the healthcare sector. The Encyclopedia of E-Health and Telemedicine is an authoritative reference source featuring emerging technological developments and solutions within the field of medicine. Emphasizing critical research-based articles on digital trends, including big data, mobile applications, electronic records management, and data privacy, and how these trends are being applied within the healthcare sector, this encyclopedia is a critical addition to academic and medical libraries and meets the research needs of healthcare professionals, researchers, and medical students.
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**From Innovation to Implementation** - WHO Regional Office for Europe - 2016

"The principal authors were Carrie Beth Peterson (Consultant in eHealth and Innovation, WHO Regional Office for Europe), Clayton Hamilton (Editor-in-chief and Unit Leader, eHealth and Innovation in the Division of Information, Evidence, Research and Innovation, WHO Regional Office for Europe) and Per Hasvold (WHO Collaborating Centre for eHealth and Telemedicine at the Norwegian Centre for Integrated Care and Telemedicine, Troms, Norway)."--Page viii.

**Health IT and Patient Safety** - Institute of Medicine - 2012-04-15

IOM's 1999 landmark study To Err is Human estimated that between 44,000 and 98,000 lives are lost every year due to medical errors. This call to action has led to a number of efforts to reduce errors and provide safe and effective health care. Information technology (IT) has been identified as a way to enhance the safety and effectiveness of care. In an effort to catalyze its implementation, the U.S. government has invested billions of dollars toward the development and meaningful use of effective health IT. Designed and properly applied, health IT can be a
positive transformative force for delivering safe health care, particularly with computerized prescribing and medication safety. However, if it is designed and applied inappropriately, health IT can add an additional layer of complexity to the already complex delivery of health care. Poorly designed IT can introduce risks that may lead to unsafe conditions, serious injury, or even death. Poor human-computer interactions could result in wrong dosing decisions and wrong diagnoses. Safe implementation of health IT is a complex, dynamic process that requires a shared responsibility between vendors and health care organizations. Health IT and Patient Safety makes recommendations for developing a framework for patient safety and health IT. This book focuses on finding ways to mitigate the risks of health IT-assisted care and identifies areas of concern so that the nation is in a better position to realize the potential benefits of health IT. Health IT and Patient Safety is both comprehensive and specific in terms of recommended options and opportunities for public and private interventions that may improve the safety of care that incorporates the use of health IT. This book will be of interest to the health IT industry, the federal government, healthcare providers and other users of health IT, and patient advocacy groups.

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**Health and the New Media**  
- Linda M. Harris - 2013-11-05  
This book presents an evaluation framework for assessing the impact of the new media on the health care system by juxtaposing characteristics of emerging information and communication technologies (interactive, seamlessly connected, and user-driven) and health care objectives (to increase access, improve quality, and manage costs). Each chapter provides a unique set of tools and perspectives on how to harness these new media to improve individual health and the health care delivery system. This innovative volume has also stimulated the creation of a "Forum on Health and the New Media" on the World Wide Web.
The forum offers highlights of the book as well as links to the authors and related web sites. The volume is divided into six sections as follows: *The "Overview" juxtaposes characteristics of the new media (interactive, connected, and user-driven) with the three criteria for health care improvement: increased access, improved quality, and cost management. It offers a New Media and Health Care matrix of criteria for building and evaluating emerging health care systems. *The "Delivery" -- how new media can enhance the delivery of health care -- includes chapters on: managed care, demand management and self-care, telemedicine for rural residents, and how the Internet can be used to facilitate collaboration among health researchers and providers. *Health Information -- the life blood of health care -- addresses the potential for: extending the traditional flow of health information (from researchers to providers) to reach patients who want to share in decisions about their care; and the federal government’s role in providing health information to the public. *Health Education discusses: integrating multimedia health programming for public schools; using networked multimedia and simulation technologies and new learning theories that promise to transform public health education; and educating health providers and patients through interactive media and drama. *Potholes Along the Highway provides a sobering balance to otherwise rather optimistic assumptions that a national information infrastructure will be forthcoming. *The New Media: Annotated Glossary provides computing and networking technology tools for readers who are not fluent in cyberlanguage.

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networking technology tools for readers who are not fluent in cyberlanguage.

**Nursing and Computers** - Virginia K. Saba - 2012-12-06
A compilation of both landmark historic and contemporary papers, illustrating the inception and evolution of nursing informatics. The authors have assembled the papers into an invaluable source book providing a framework for future developments in the field. Examining the relationship between nursing and information systems, practical applications include administration, practice, research, education, critical care, and community health. An essential tool for nurses seeking to attain credentials as Nursing Informatics Specialists.


**Health Research Practices in a Digital Context** - Laurent Morillon - 2020-12-03
The current “generalized digitization” of society is influencing the health
environment, healthcare organizations as well as actors. In this context, human and social sciences deconstruct, nuance and sometimes even challenge certain preconceived ideas and/or dominant discourses. In this book, researchers of four nationalities and three different disciplines have agreed to open the “black box” of their work. They display their scientific practices from the perspective of epistemology, ethics and methodology. They present and analyze their values and postulates but, also, what may have influenced the project, the definition of the object and objectives, as well as their approaches. In a contextual way, the first part presents some changes in environments and infocommunicational practices related to digital health. The second part opens space to reflect on ethics and deontology. Finally, postulating that scientific fact is not an essence but the result of a process, the last part discusses the methods implemented, which may be different from those initially envisaged. This book is dedicated to the researchers and postgraduate students in the human and social sciences as well as the health practitioners likely to collaborate with them.

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**Health Informatics: Practical Guide for Healthcare and Information Technology Professionals (Sixth Edition)** - Robert E. Hoyt - 2014-02

Health Informatics (HI) focuses on the application of Information Technology (IT) to the field of medicine to improve individual and population healthcare delivery, education and research. This extensively updated fifth edition reflects the current knowledge in Health Informatics and provides learning objectives, key points, case studies and references.

**Building a Better Delivery System** - Institute of Medicine - 2005-10-20

In a joint effort between the National Academy of Engineering and the Institute of Medicine, this book attempts to bridge the knowledge/awareness divide separating health care professionals from their potential partners in systems.
In a joint effort between the National Academy of Engineering and the Institute of Medicine, this book attempts to bridge the knowledge/awareness divide separating health care professionals from their potential partners in systems engineering and related disciplines. The goal of this partnership is to transform the U.S. health care sector from an underperforming conglomerate of independent entities (individual practitioners, small group practices, clinics, hospitals, pharmacies, community health centers et. al.) into a high performance "system" in which every participating unit recognizes its dependence and influence on every other unit. By providing both a framework and action plan for a systems approach to health care delivery based on a partnership between engineers and health care professionals, Building a Better Delivery System describes opportunities and challenges to harness the power of systems-engineering tools, information technologies and complementary knowledge in social sciences, cognitive sciences and business/management to advance the U.S. health care system.

**Building a Better Delivery System** - Institute of Medicine - 2005-10-20
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Problems in Health Care Law - John E. Steiner - 2013-03-01
Under the guidance of new lead editor John E. Steiner, Jr., Esq, Problems in Health Care Law, Tenth Edition continues to be the authoritative foundational textbook that covers the key components of our legal system and their application to our healthcare system. Students will come away with a clear understanding of how individual rights are defined and protected in the healthcare setting; how healthcare services are defined, insured, and paid for; how individual providers organize and govern themselves; and many other core legal concepts related to the organization and administration of our healthcare system. The Tenth Edition is an extensive revision that covers HIPAA, healthcare reform, and offers several chapters not included in previous editions. This authoritative text brings together legal practitioners, business advisors, and others whose work represents some of the best thinking and analyses of the issues at hand, including healthcare reform, delivery, payment, client counseling, and contested legal matters. The text is accompanied by a complete package of instructor resources (Transition Guide, PowerPoints, Test Bank) as well as a student companion website that offers interactive practice exercises to reinforce learning of key concepts.

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Health Information - E-Book - Mervat Abdelhak - 2014-12-24
Uncover the latest information you need to know when entering the growing health information management job market with Health Information: Management of a Strategic Resource, 5th Edition. Following the AHIMA standards for education for both two-year HIT programs and four-year HIA programs, this new edition boasts dynamic, state-of-the-art coverage of health information management, the deployment of information technology, and the role of the HIM professional in the development of the electronic health record. An easy-to-understand approach and expanded content on data analytics, meaningful use, and public health informatics content, plus a handy companion website, make it even easier for you to learn to manage and use healthcare data. Did You Know? boxes highlight interesting facts to enhance learning. Self-assessment quizzes test your learning and retention, with answers available on the companion Evolve website. Learning features include a chapter outline, key words, common abbreviations, and learning objectives at the beginning of each chapter,
Diverse examples of healthcare deliveries, like long-term care, public health, home health care, and ambulatory care, prepare you to work in a variety of settings. Interactive student exercises on Evolve, including a study guide and flash cards that can be used on smart phones. Coverage of health information infrastructure and systems provides the foundational knowledge needed to effectively manage healthcare information. Applied approach to Health Information Management and Health Informatics gives you problem-solving opportunities to develop proficiency. EXPANDED! Data analytics, meaningful use, and public health informatics content prepares HIM professionals for new job responsibilities in order to meet today’s, and tomorrow’s, workforce needs. EXPANDED! Emphasis on the electronic health care record educates you in methods of data collection, governance, and use. NEW! Chapter on data access and retention provides examples of the paper health record and its transition to the EHR. NEW! Focus on future trends, including specialty certifications offered by the AHIMA, the American Medical Informatics Associations (AMIA), and the Health Information Management Systems Society (HIMSS), explains the vast number of job opportunities and expanded career path awaiting you.

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Health Information Systems and the Advancement of Medical Practice in Developing Countries - Moahi, Kgomotso H. - 2017-02-27
The continuous development of new technologies has led to significant socio-economic advances in modern society. When applied in the medical sector, healthcare delivery techniques are optimized. Health Information Systems and the Advancement of Medical Practice in Developing Countries is a comprehensive reference source for the latest scholarly research on technology utilization for delivering reliable and accurate health information to patients and clinical staff. Highlighting pivotal perspectives on topics such as mobile health, telemedicine, and healthcare access, this book is ideally designed for professionals, practitioners, researchers, academics, and graduate students interested in the benefits and challenges of technology applications in healthcare systems.

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Resources in Education - - 1994

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The President's Comprehensive Health Reform Program - United States. President (1989-1993 :
Chronic conditions such as arthritis, heart disease, and Parkinson disease are the principal cause of all sickness and death in the United States and represent the vast majority of health care expenditures. Although we now live in a world dominated by chronic conditions, health care is still organized around a commitment to treating acute illnesses. Meeting the Challenge of Chronic Illness examines current deficiencies in chronic illness care and explores ways to improve it. Addressing the challenges of shifting from the primacy of acute illnesses to the predominance of chronic conditions, the authors identify the components necessary to reorganize and reform health care: properly prepared health care workers; involved patients and families; appropriate use of new technologies, especially information systems; an appropriate role for prevention; and the creation of funding approaches that will provide necessary incentives. This book calls on policy makers, health care providers, and educators to address one of the greatest challenges facing the health care system.
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**Healthcare Information Management Systems** - Charlotte A. Weaver - 2015-09-21

Healthcare Information Management Systems, 4th edition, is a comprehensive volume addressing the technical, organizational and management issues confronted by healthcare professionals in the selection, implementation and management of healthcare information systems. With contributions from experts in the field, this book focuses on topics such as strategic planning, turning a plan into reality, implementation, patient-centered technologies, privacy, the new culture of patient safety and the future of technologies in progress. With the addition of many new chapters, the 4th Edition is also richly peppered with case studies of implementation. The case studies are evidence that information technology can be implemented efficiently to yield results, yet they do not overlook pitfalls, hurdles, and other challenges that are encountered. Designed for use by physicians, nurses, nursing and medical directors, department heads, CEOs, CFOs, CIOs, COOs, and healthcare informaticians, the book aims to be an indispensable reference.

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Electronic Health Record - MD, Alexander Scarlat - 2012-03-22
An accessible primer, Electronic Health Record: A Systems Analysis of the Medications Domain introduces the tools and methodology of Structured Systems Analysis as well as the nuances of the Medications domain. The first part of the book provides a top-down decomposition along two main paths: data in motion workflows, processes, activities, and tas

Confidential Relationships - Christine M. Koggel - 2003
This book focuses the collective attention of psychotherapists, the legal community, social scientists, and ethicists on the moral, legal, and clinical problems of
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This book focuses the collective attention of psychotherapists, the legal community, social scientists, and ethicists on the moral, legal, and clinical problems of confidentiality in psychotherapeutic practice. By providing timely and important interdisciplinary contributions, the book opens the way to understanding, if not resolving, the conflicting interests and values at stake in the debate on confidentiality.

Budget Overview for Fiscal Year 1993
- United States. Congress. Senate. Committee on Appropriations - 1992

E-Health and Telemedicine: Concepts, Methodologies, Tools, and Applications
- Management Association, Information Resources - 2015-09-23
Advances in medical technology increase both the efficacy and efficiency of medical practice, and mobile technologies enable modern doctors and nurses to treat patients remotely from anywhere in the world. This technology raises issues of quality of care and medical ethics, which must be addressed. E-Health and Telemedicine: Concepts, Methodologies, Tools, and Applications explores recent advances in mobile medicine and how this technology impacts modern medical care. Three volumes of comprehensive coverage on crucial topics in wireless technologies for enhanced medical care make this multi-volume publication a critical reference source for doctors, nurse practitioners, hospital administrators, and researchers and academics in all areas of the medical field. This seminal publication
features comprehensive chapters on all aspects of e-health and telemedicine, including implementation strategies; use cases in cardiology, infectious diseases, and cytology, among others; care of individuals with autism spectrum disorders; and medical image analysis.


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E-Health Systems Quality and Reliability: Models and Standards - Mountzoglou, Anastasius - 2010-08-31

E-Health Systems Quality and Reliability: Models and Standards addresses the reason, principles and functionality of health and health care systems and presents a novel framework for revealing, understanding and implementing appropriate management interventions leading to qualitative improvement. It also provides
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Cloud Computing Systems and Applications in Healthcare - Bhatt, Chintan M. - 2016-08-30
The implementation of cloud technologies in healthcare is paving the way to more effective patient care and management for medical professionals around the world. As more facilities start to integrate cloud computing into their healthcare systems, it is imperative to examine the emergent trends and innovations in the field. Cloud Computing Systems and Applications in Healthcare features innovative research on the impact that cloud technology has on patient care, disease management, and the efficiency of various medical systems. Highlighting the challenges and difficulties in implementing cloud technology into the healthcare field, this publication is a critical reference source for academicians, technology designers, engineers, professionals, analysts, and graduate students.
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Electronic Commerce Management for Business Activities and Global Enterprises: Competitive Advantages - Lee, In - 2012-06-30

Electronic Commerce Management for Business Activities and Global Enterprises: Competitive Advantages is written as an e-commerce textbook for undergraduate and graduate students in various business programs, including information systems, marketing, computer science, and MBA. In addition to serving as a textbook in e-commerce, this book also provides an excellent repository for instructors, researchers, and industry practitioners for their research ideas, theories, and practical experiences. In addition to regular topics traditionally taught in the classroom, this textbook addresses the many new emerging ideas and applications and presents tools and techniques in all aspects of e-commerce development and management in the global economy.

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