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BC9 - LEXI KAITLIN

How can a smartwatch help patients with diabetes manage their disease? Why can't patients find out prices for surgeries and other procedures before they happen? How can researchers speed up the decade-long process of drug development? How will "Precision Medicine" impact patient care outside of cancer? What can doctors, hospitals, and health systems do to ensure they are maximizing high-value care? How can healthcare entrepreneurs find success in this data-driven market? A revolution is transforming the \$10 trillion healthcare landscape, promising greater transparency, improved efficiency, and new ways of delivering care. This new landscape presents tremendous opportunity for those who are ready to embrace the data-driven reality. Having the right data and knowing how to use it will be the key to success in the healthcare market in the future. We are already starting to

see the impacts in drug development, precision medicine, and how patients with rare diseases are diagnosed and treated. Startups are launched every week to fill an unmet need and address the current problems in the healthcare system. Digital devices and artificial intelligence are helping doctors do their jobs faster and with more accuracy. MoneyBall Medicine: Thriving in the New Data-Driven Healthcare Market, which includes interviews with dozens of healthcare leaders, describes the business challenges and opportunities arising for those working in one of the most vibrant sectors of the world's economy. Doctors, hospital administrators, health information technology directors, and entrepreneurs need to adapt to the changes effecting healthcare today in order to succeed in the new, cost-conscious and value-based environment of the future. The authors map out many of the changes taking place, describe how they are impacting ev-

everyone from patients to researchers to insurers, and outline some predictions for the healthcare industry in the years to come.

"Many interesting developments have occurred in the world of venture capital since the publication of the first edition of this book in 2006, which prompted us to revise the book for the second edition. While the organization of the book remains unchanged, many of the chapters are substantially rewritten. For example, in Chapter 5, we re-ranked top VC firms, incorporating the latest performance statistics, fundraising and investment activities, notable exits, and (as always) our subjective opinions. In Chapter 6, we examine further evidence of the deepening globalization of the industry. In Chapters 3, 4, and 7, we analyze the impact of the 1999-2000 Internet bubble years on the VC risk and returns, as investments made in those years are finally mature and thus now a part of the performance evaluation analysis. We also incorporated expositional improvements throughout the book based on reader feedback on the first edition. Another feature of the new edition is that the VCV model, used extensively in Part III of the book, is now available as a Web-based application available on <http://VCVtools.com>. Significant collaborative efforts went into developing this tool, which we believe will be of interest to a broad audience, including practitioners interested in valuing VC-backed company stocks and employee stock options"

The first book to focus on measuring the basic processes of mental healthcare, such as access, detection, treatment appropriateness, safety and continuity of care, *Improving Mental Healthcare: A Guide to Measurement-Based Quality Improvement* integrates practical information about quality measures -- such as their clinical logic, validity and basis in scientific evidence -- into a highly

readable guide on how to implement measures and use the results to improve quality of care. *Improving Mental Healthcare* examines the clinical, policy, and scientific underpinnings of process measurement, a widely used method of assessing quality of mental healthcare. It describes the use of measurement to improve quality, promote accountability, encourage evidence-based practice, and shape incentives to favor delivery of high-quality care. Divided into two sections totaling 14 chapters, the first section describes factors that led to a nationwide emphasis on improving quality of care, major approaches to quality assessment, considerations in selecting measures, as well as how to analyze and interpret measure results. The second section summarizes information on more than 300 quality measures, including their clinical rationale, specifications, sources of data, supporting evidence, readiness for use, and -- where available -- data on reliability, validity, results, case-mix adjustment, standards, and benchmarks. *Improving Mental Healthcare* helps clinicians, managers, administrators, payers, purchasers, accreditors, consumer groups, and other stakeholders meet national mandates to assess and improve quality of care by providing the following tools and guidance: Results from the National Inventory of Mental Health Quality Measures, a federally funded study summarizing clinical, technical, and scientific properties of more than 300 process measures A user-friendly format that helps potential measure users find quality measures that reflect their priorities and meet their needs Guidance for healthcare organizations and clinicians on how to integrate measurement into a comprehensive approach to quality management An understanding of the relationship between process measurement and other approaches to quality as-

assessment, in particular outcomes assessment—the focus of a companion guide, *Outcome Measurement in Psychiatry: A Critical Review* (APPI 2002) *Improving Mental Healthcare*, which includes extensive references as well as useful figures and tables illustrating key concepts, is essential reading for practicing clinicians, health-care managers, medical students and psychiatric residents -- who must now meet ACGME requirements to learn about quality assessment and improvement -- as well as members of oversight organizations and consumer advocacy groups. It will prove invaluable for healthcare organizations seeking to improve quality of care, clinical training programs, and courses on quality assessment, healthcare management, and mental health policy.

The guideline offers clear, concise, and actionable recommendation statements to help clinicians to incorporate recommendations into clinical practice, with the goal of improving quality of care. Each recommendation is given a rating that reflects the level of confidence that potential benefits of an intervention outweigh potential harms.

This handbook focuses on two sides of the lean production debate that rarely interact. On the one hand, management and industrial engineering scholars have presented a positive view of lean production as the epitome of efficiency and quality. On the other hand, sociology, industrial relations, and labor relations scholars focus on work speedups, management by stress, trade union positions, and self-exploitation in lean teams. The editors of this volume understand the merits of both views and present them accordingly, bridging the gaps among five disciplines and presenting the best of each perspective. Chapters by internation-

ally acclaimed authors examine the positive, negative and neutral possible effects of lean, providing a global view of lean production while adjusting lean to the cultural and political contexts of different nation-states. As the first multi-lens view of lean production from academic and consultant perspectives, this volume charts a way forward in the world of work and management in our global economy.

Practical SQL is an approachable and fast-paced guide to SQL (Structured Query Language), the standard programming language for defining, organizing, and exploring data in relational databases. The book focuses on using SQL to find the story your data tells, with the popular open-source database PostgreSQL and the pgAdmin interface as its primary tools. You'll first cover the fundamentals of databases and the SQL language, then build skills by analyzing data from the U.S. Census and other federal and state government agencies. With exercises and real-world examples in each chapter, this book will teach even those who have never programmed before all the tools necessary to build powerful databases and access information quickly and efficiently. You'll learn how to:

- Create databases and related tables using your own data
- Define the right data types for your information
- Aggregate, sort, and filter data to find patterns
- Use basic math and advanced statistical functions
- Identify errors in data and clean them up
- Import and export data using delimited text files
- Write queries for geographic information systems (GIS)
- Create advanced queries and automate tasks

Learning SQL doesn't have to be dry and complicated. Practical SQL delivers clear examples with an easy-to-follow approach to teach you the tools you need to build and manage your own databases. This book uses Post-

greSQL, but the SQL syntax is applicable to many database applications, including Microsoft SQL Server and MySQL.

A comprehensive and authoritative exploration of Bitcoin and its place in monetary history. When a pseudonymous programmer introduced “a new electronic cash system that’s fully peer-to-peer, with no trusted third party” to a small online mailing list in 2008, very few people paid attention. Ten years later, and against all odds, this upstart autonomous decentralized software offers an unstoppable and globally accessible hard money alternative to modern central banks. The Bitcoin Standard analyzes the historical context to the rise of Bitcoin, the economic properties that have allowed it to grow quickly, and its likely economic, political, and social implications. While Bitcoin is an invention of the digital age, the problem it purports to solve is as old as human society itself: transferring value across time and space. Author Saifedean Ammous takes the reader on an engaging journey through the history of technologies performing the functions of money, from primitive systems of trading limestones and seashells, to metals, coins, the gold standard, and modern government debt. Exploring what gave these technologies their monetary role, and how most lost it, provides the reader with a good idea of what makes for sound money, and sets the stage for an economic discussion of its consequences for individual and societal future-orientation, capital accumulation, trade, peace, culture, and art. Compellingly, Ammous shows that it is no coincidence that the loftiest achievements of humanity have come in societies enjoying the benefits of sound monetary regimes, nor is it coincidental that monetary collapse has usually accompanied civilizational collapse. With this background in place, the book moves on to ex-

plain the operation of Bitcoin in a functional and intuitive way. Bitcoin is a decentralized, distributed piece of software that converts electricity and processing power into indisputably accurate records, thus allowing its users to utilize the Internet to perform the traditional functions of money without having to rely on, or trust, any authorities or infrastructure in the physical world. Bitcoin is thus best understood as the first successfully implemented form of digital cash and digital hard money. With an automated and perfectly predictable monetary policy, and the ability to perform final settlement of large sums across the world in a matter of minutes, Bitcoin’s real competitive edge might just be as a store of value and network for the final settlement of large payments—a digital form of gold with a built-in settlement infrastructure. Ammous’ firm grasp of the technological possibilities as well as the historical realities of monetary evolution provides for a fascinating exploration of the ramifications of voluntary free market money. As it challenges the most sacred of government monopolies, Bitcoin shifts the pendulum of sovereignty away from governments in favor of individuals, offering us the tantalizing possibility of a world where money is fully extricated from politics and unrestrained by borders. The final chapter of the book explores some of the most common questions surrounding Bitcoin: Is Bitcoin mining a waste of energy? Is Bitcoin for criminals? Who controls Bitcoin, and can they change it if they please? How can Bitcoin be killed? And what to make of all the thousands of Bitcoin knock-offs, and the many supposed applications of Bitcoin’s ‘block chain technology’? The Bitcoin Standard is the essential resource for a clear understanding of the rise of the Internet’s decentralized, apolitical, free-market alternative to national central banks.

Straight from the American Medical Association (AMA), this is the only CPT codebook with the official CPT coding rules and guidelines developed by the CPT Editorial Panel. Covers hundreds of code, guidelines, and text changes for properly interpreting and reporting medical procedures.

R is a language and environment for data analysis and graphics. It may be considered an implementation of S, an award-winning language initially developed at Bell Laboratories since the late 1970s. The R project was initiated by Robert Gentleman and Ross Ihaka at the University of Auckland, New Zealand, in the early 1990s, and has been developed by an international team since mid-1997. Historically, econometricians have favored other computing environments, some of which have fallen by the wayside, and also a variety of packages with canned routines. We believe that R has great potential in econometrics, both for research and for teaching. There are at least three reasons for this: (1) R is mostly platform independent and runs on Microsoft Windows, the Mac family of operating systems, and various flavors of Unix/Linux, and also on some more exotic platforms. (2) R is free software that can be downloaded and installed at no cost from a family of mirror sites around the globe, the Comprehensive R Archive Network (CRAN); hence students can easily install it on their own machines. (3) R is open-source software, so that the full source code is available and can be inspected to understand what it really does, learn from it, and modify and extend it. We also like to think that platform independence and the open-source philosophy make R an ideal environment for reproducible econometric research.

Most clinicians seek guidelines and indicators as to the effectiveness of their interventions with clients. Some may even be implementing evidence-based interventions and seek an in-depth understanding of their results. This book helps clinicians who provide couple's or marriage therapy and counseling go from the ambiguous realm of "thinking" or "knowing" their effectiveness to being able to demonstrate it. It identifies effective strategies for common treatment concerns that connect to the successful outcomes of therapy. Here, the process starts even before the couple enters therapy and goes beyond the final session. Dr. Losey discusses specific outcome measures and how they can be used in session so that the couple can assess their relationship and develop specific goals and interventions for treatment. The author also examines session notes, pre-treatment change, and developing quality post-treatment goals in his discussion of clinical effectiveness.

A guide for everyone involved in medical decision making to plot a clear course through complex and conflicting benefits and risks. How good is the quality of health care in the United States? Is quality improving? Or is it suffering? While the average person on the street can follow the state of the economy with economic indicators, we do not have a tool that allows us to track trends in health care quality. Beginning in 2003, the Agency for Healthcare Research and Quality (AHRQ) will produce an annual report on the national trends in the quality of health care delivery in the United States. AHRQ commissioned the Institute of Medicine (IOM) to help develop a vision for this report that will allow national and state policy makers, providers, consumers, and the public at large to track trends in health care quality. Envisioning the Na-

tional Health Care Quality Report offers a framework for health care quality, specific examples of the types of measures that should be included in the report, suggestions on the criteria for selecting measures, as well as advice on reaching the intended audiences. Its recommendations could help the national health care quality report to become a mainstay of our nation's effort to improve health care.

Significantly revised and updated to include online and computerized aspects of private practice, this essential manual has given many tens of thousands of clinicians the complete record-keeping and risk-reduction tools that every psychotherapy practice needs. The book provides effective methods for obtaining informed consent, planning treatment and documenting progress, managing HIPAA compliance, maintaining clinical and financial records, communicating with clients and third-party payers, and reducing malpractice risk. Drawing from the professional literature, it features key guidance and easy-to-digest pointers about the ethical, legal, and business aspects of practice. With a large-size format and lay-flat binding for easy photocopying of the 53 reproducible forms and handouts, the book includes a CD-ROM that lets purchasers customize and print the reproducible materials. New to This Edition: *Updated throughout to reflect today's greater use of electronic/digital technologies in practice management. *Chapter on insurance and billing, coping with managed care, and Medicare. *Chapter on private practice marketing, including Internet and social media dos and don'ts. *Expanded topics: HIPAA compliance, ICD-10, responding to subpoenas, and using online technologies for billing, communication, and record keeping.

*Information about hundreds of websites dealing with all aspects of operating a practice. See also Clinician's Thesaurus, 7th Edition, and Clinician's Electronic Thesaurus, Version 7.0, by Edward L. Zuckerman, indispensable resources for conducting interviews and writing psychological reports.

This book discusses how effective navigation requires a team approach to oncology care and should never be considered an “add-on” resource or service. The Academy of Oncology Nurse & Patient Navigators (AONN) is the only national professional organization for navigation professionals, and has more than 6,000 members, 90% of which are oncology nurse navigators. They are the experts on creating team-based programs, which remove the risk of others trying to reinvent the wheel by designing a navigation program from scratch. They also understand the role of effective navigation across the entire continuum of care, and understand and are able to apply other key aspects of navigation, including clinical trial screenings and tumor board coordination and monitoring, as well as measurement using evidence-based navigation metrics, to name but a few. It is the only book designed to educate and support anyone developing a new navigation program, or wanting to improve one they have created. As such it offers a guide for cancer centers needing to develop and implement an oncology navigation program; understand and successfully meet and exceed the Commission on Cancer accreditation standards linked to navigation; expand or improve their current navigation program as well as demonstrate its value using reliable measurable results, including patient satisfaction and improved-quality clinical outcomes. This comprehensive book also provides insights into applying the information presented to the real world of

oncology care.

Amber is the collective name for a suite of programs that allow users to carry out molecular dynamics simulations, particularly on biomolecules. None of the individual programs carries this name, but the various parts work reasonably well together, and provide a powerful framework for many common calculations. The term Amber is also used to refer to the empirical force fields that are implemented here. It should be recognized, however, that the code and force field are separate: several other computer packages have implemented the Amber force fields, and other force fields can be implemented with the Amber programs. Further, the force fields are in the public domain, whereas the codes are distributed under a license agreement. The Amber software suite is divided into two parts: AmberTools21, a collection of freely available programs mostly under the GPL license, and Amber20, which is centered around the pmemd simulation program, and which continues to be licensed as before, under a more restrictive license. Amber20 represents a significant change from the most recent previous version, Amber18. (We have moved to numbering Amber releases by the last two digits of the calendar year, so there are no odd-numbered versions.) Please see <https://ambermd.org> for an overview of the most important changes. AmberTools is a set of programs for biomolecular simulation and analysis. They are designed to work well with each other, and with the “regular” Amber suite of programs. You can perform many simulation tasks with AmberTools, and you can do more extensive simulations with the combination of AmberTools and Amber itself. Most components of AmberTools are released under the GNU General Public License (GPL). A few components

are in the public domain or have other open-source licenses. See the README file for more information.

This volume presents novel concepts to help physicians and health care providers better understand the thought processes and approaches used in clinical decision-making and how we develop those skills as we transition from being a medical student to post-graduate trainee to independent practitioner. Approaches presented range from simple rules of thumb, pattern recognition, and heuristics, to more formulaic methods such as standard operating procedures, checklists, evidence-based medicine, mathematical modeling, and statistics. Ways to recognize and manage errors and how our decision-making can be improved, are also discussed. An Introduction to Medical Decision-Making presents several innovative techniques to allow the reader to use the principles presented and integrate the ethical, humanistic and social aspects of decision-making with the pragmatic and knowledge-based aspects of clinical medicine. It also highlights how our thinking processes, emotions, and biases affect decision-making. This invaluable resource will allow students and physicians to evaluate and critically discuss their decisions objectively to become more efficient and effective, and maximize the quality of care they provide.

The two-volume Emergency Medical Services: Clinical Practice and Systems Oversight delivers a thorough foundation upon which to succeed as an EMS medical director and prepare for the NAEMSP National EMS Medical Directors Course and Practicum. Focusing on EMS in the 'real world', the book offers specific management tools that will be useful in the reader's own local EMS

system and provides contextual understanding of how EMS functions within the broader emergency care system at a state, local, and national level. The two volumes offer the core knowledge trainees will need to successfully complete their training and begin their career as EMS physicians, regardless of the EMS systems in use in their areas. A companion website rounds out the book's offerings with audio and video clips of EMS best practice in action. Readers will also benefit from the inclusion of: A thorough introduction to the history of EMS An exploration of EMS airway management, including procedures and challenges, as well as how to manage ventilation, oxygenation, and breathing in patients, including cases of respiratory distress Practical discussions of medical problems, including the challenges posed by the undifferentiated patient, altered mental status, cardiac arrest and dysrhythmias, seizures, stroke, and allergic reactions An examination of EMS systems, structure, and leadership

PCMag.com is a leading authority on technology, delivering Lab-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

This report is based on a rethinking of the concept of motivation, which is redefined here as purposeful, intentional, & positive -- directed toward the person's best interests. This report shows how substance abuse treat. staff can influence change by developing a therapeutic relationship that respects & builds on the client's autonomy & makes the treat. clinician a partner in the change process. Describes motivational interventions that can be used at all stages of the change process, from pre-contemplation & preparation to action & maintenance, & informs readers of the re-

search, results, tools, & assessment instruments related to enhancing motivation.

The aim of the American Psychiatric Association Practice Guideline series is to improve patient care. Guidelines provide a comprehensive synthesis of all available information relevant to the clinical topic. Practice guidelines can be vehicles for educating psychiatrists, other medical and mental health professionals, and the general public about appropriate and inappropriate treatments. The series also will identify those areas in which critical information is lacking and in which research could be expected to improve clinical decisions. The Practice Guidelines are also designed to help those charged with overseeing the utilization and reimbursement of psychiatric services to develop more scientifically based and clinically sensitive criteria.

Since the publication of the Institute of Medicine (IOM) report Clinical Practice Guidelines We Can Trust in 2011, there has been an increasing emphasis on assuring that clinical practice guidelines are trustworthy, developed in a transparent fashion, and based on a systematic review of the available research evidence. To align with the IOM recommendations and to meet the new requirements for inclusion of a guideline in the National Guidelines Clearinghouse of the Agency for Healthcare Research and Quality (AHRQ), American Psychiatric Association (APA) has adopted a new process for practice guideline development. Under this new process APA's practice guidelines also seek to provide better clinical utility and usability. Rather than a broad overview of treatment for a disorder, new practice guidelines focus on a set of discrete clinical questions of relevance to an overarching subject

area. A systematic review of evidence is conducted to address these clinical questions and involves a detailed assessment of individual studies. The quality of the overall body of evidence is also rated and is summarized in the practice guideline. With the new process, recommendations are determined by weighing potential benefits and harms of an intervention in a specific clinical context. Clear, concise, and actionable recommendation statements help clinicians to incorporate recommendations into clinical practice, with the goal of improving quality of care. The new practice guideline format is also designed to be more user friendly by dividing information into modules on specific clinical questions. Each module has a consistent organization, which will assist users in finding clinically useful and relevant information quickly and easily. This new edition of the practice guidelines on psychiatric evaluation for adults is the first set of the APA's guidelines developed under the new guideline development process. These guidelines address the following nine topics, in the context of an initial psychiatric evaluation: review of psychiatric symptoms, trauma history, and treatment history; substance use assessment; assessment of suicide risk; assessment for risk of aggressive behaviors; assessment of cultural factors; assessment of medical health; quantitative assessment; involvement of the patient in treatment decision making; and documentation of the psychiatric evaluation. Each guideline recommends or suggests topics to include during an initial psychiatric evaluation. Findings from an expert opinion survey have also been taken into consideration in making recommendations or suggestions. In addition to reviewing the available evidence on psychiatry evaluation, each guideline also provides guidance to clinicians on implementing th-

ese recommendations to enhance patient care.

For both patients and providers, the words managed care are loaded with negative connotations, synonymous with inefficiency and bureaucracy.

"The World Health Organisation had just published a generic assessment instrument to measure general health and disability levels: the WHO Disability Assessment Schedule, WHODAS 2.0. WHODAS 2.0 is based on the International Classification of Functioning, Disability and Health (ICF). It was developed and tested internationally and is applicable in different cultures both in general populations and in clinical settings. It can be used as a general measure across all diseases. This manual is aimed at public health professionals, doctor, other health professionals (for example rehabilitation professionals, physical therapists and occupational therapists), health policy planners, social scientists and others involved in studies on disability and health." -- Publisher.

Liberating the NHS : Legislative Framework and Next Steps: Presented to Parliament by the Secretary of State for Health by Command of Her Majesty, December 2010

This volume offers empirically based insights and findings on the question of how human service organizations are reacting to the increasing need for greater impact, effectiveness, and performance. As demand for increased impact outstrips our knowledge of how best to achieve these goals, the book's contributors discuss the innovative strategies being used to ensure that multiplex goals are being met and the degree to which client and staff concerns are being sacrificed for the organizational bottom line. Taken together, these discussions demonstrate that specific man-

agement strategies and collaboration based on trust and consideration of mission may help improve the quality of some services; however, many of the pressures which organizations and managers experience are resulting in lower staff morale, compromised missions, and inefficiencies. This book will be of interest to those researching human service agencies, as well as those with a broader concern for how organizations react to doing more with less. This book was originally published as a special issue of the Human Service Organizations journal.

Record Keeping in Psychotherapy and Counseling provides an essential framework for understanding record keeping within legal, ethical, supervisory, and clinical contexts. Compelling case examples identify dilemmas and strategies in protecting confidentiality. More than a simple reference book, this text introduces the concept of using records as therapeutic tools to strengthen the therapeutic relationship and facilitate clinical supervision. Appendices and an accompanying CD offer sample forms. A reader-friendly style makes this new edition appropriate for undergraduate and graduate students. New material on electronic records, the impact of electronic communication, and practitioners' experiences with implementing the Health Insurance Portability and Accountability Act bring this book up to date. Everyone from students to seasoned practitioners will continue to rely on it for protecting themselves, their patients, and their trainees.

Includes the first published detailed description of option exchange operations, the first published treatment using only elementary mathematics and the first step-by-step procedure for implementing the Black-Scholes formula in actual trading.

IBM DB2 Recovery Expert for Multiplatforms provides an en-

hanced data recovery solution that enables more precise recovery operations while reducing disruption during the recovery process. DB2 Recovery Expert creates and maintains additional recovery assets that you can use for intelligent analysis of both DB2 and DB2 Recovery Expert assets to find the most efficient recovery path. DB2 Recovery Expert facilitates the process of rebuilding your database assets, such as tables, indexes, and data, to a specified point-in-time, often without taking the database or the business operations offline. This IBM Redbooks publication shows you how to install and implement DB Recovery Expert and the Fast Backup and Grouper components. It also describes the DB2 Recovery Expert assets and how to manage these assets. In addition, this book explains the summary and detail reports of Log Analysis, including the DPF environment. It shows, in detailed examples, point-in-time recovery and cloning of tables, table spaces, and databases. Please note that the additional material referenced in the text is not available from IBM.

This information-packed manual and CD-ROM provide the basic administrative forms that every independent or small group practice needs. Serving as a "malpractice risk reduction kit," "The Paper Office, Second Edition" will save therapists time while legally protecting them and their clients. Incorporating current ethical standards, the more than 50 ready-to-use forms, checklists, and handouts include client handouts on confidentiality, such as "What You Should Know About Managed Care"; a sample treatment plan for managed care organizations; therapy contracts for adults, children, and groups; and letters for releasing and requesting client records. The accompanying CD-ROM lets users load any

of the forms and handouts into their word processing program and modify them as needed. Alternatively, all materials may be photocopied directly from the book. The CD-ROM also contains a CE test with which readers can earn continuing education credits approved by the American Psychological Association (for an additional fee).

The Balance of Payments Textbook, like the Balance of Payments Compilation Guide, is a companion document to the fifth edition of the Balance of Payments Manual. The Textbook provides illustrative examples and applications of concepts, definitions, classifications, and conventions contained in the Manual and affords compilers with opportunities for enhancing their understanding of the relevant parts of the Manual. The Textbook is one of the main reference materials for training courses in balance of payments methodology.

You can choose several data access frameworks when building Java enterprise applications that work with relational databases. But what about big data? This hands-on introduction shows you how Spring Data makes it relatively easy to build applications across a wide range of new data access technologies such as NoSQL and Hadoop. Through several sample projects, you'll learn how Spring Data provides a consistent programming model that retains NoSQL-specific features and capabilities, and helps you develop Hadoop applications across a wide range of use-cases such as data analysis, event stream processing, and workflow. You'll also discover the features Spring Data adds to Spring's existing JPA and JDBC support for writing RDBMS-based data access layers. Learn about Spring's template helper classes to simplify the use of database-specific functionality Explore Spring Data's repository

abstraction and advanced query functionality Use Spring Data with Redis (key/value store), HBase (column-family), MongoDB (document database), and Neo4j (graph database) Discover the GemFire distributed data grid solution Export Spring Data JPA-managed entities to the Web as RESTful web services Simplify the development of HBase applications, using a lightweight object-mapping framework Build example big-data pipelines with Spring Batch and Spring Integration

Year on year, there continue to be dramatic changes in endoscopic ultrasonography (EUS) since it was first introduced 30 years ago. Advances in technology have meant that as well as being used in the diagnosis of gastrointestinal disorders, EUS is now one of the primary diagnostic and therapeutic modalities used in GI endoscopy. Back and improved for a new edition, Endoscopic Ultrasonography is the market-leading book covering the topic. Written by leading experts in the field, it provides a technical how-to approach to learning this advanced endoscopic procedure. The highly-acclaimed authors provide step-by-step guidance to the fundamentals of EUS, giving clear instructions on the instruments involved, the correct sedation procedures to follow and how EUS should be performed safely and effectively. Every chapter discusses a specific aspect of EUS as it relates to a particular gastrointestinal disorder or organ system. Brand new to this edition are: 1) Seven new chapters on the hottest topics in EUS: Learning Anatomy for EUS; Elastography; Lung Cancer; Autoimmune Pancreatitis; EUS for Liver Disease; Biliary Access; Pancreatic Fluid Collection Drainage 2) A complete update of all previous chapters to reflect the most current clinical recommendations 3) A host of new color images in every chapter Endoscopic Ultra-

sonography 3rd edition is the ideal tool to consult to improve EUS skills and improve patient management, and an essential purchase for all gastroenterologists and endoscopists.

Introduction to Clinical Informatics fills a void in the Computer in Health Care series. With this volume, Patrice Degoulet and Marius Fieschi provide a comprehensive view of medical informatics and carry that concept forward into the realm of clinical informatics. The authors draw upon their experiences as medical school faculty members in France, where informatics has long been integrated into the curriculum and where the French version of this very book has been used, tested, and revised. In intent and content, this volume stands as the companion volume to Introduction to Nursing Informatics, one of the series' best selling titles. For practitioners and students of medicine, pharmacy, and other health professions, Introduction to Clinical Informatics offers an essential understanding how computing can support patient care, clarifying practical uses and critical issues. Today medical schools in the United States are making informatics a part of their curriculum, with required medical informatics blocks at the onset of training serving as the base for problem-based learning throughout the course of study. In an increasingly networked and computerized environment, health-care providers are having to alter how they practice. Whether in the office, the clinic, or the hospital, health-care professionals have access to a growing array of capabilities and tools as they deliver care. Learning to use these becomes a top priority, and this volume becomes a valuable resource.

The “wrenching but inspiring” true story of a tragic medical mistake that turned a grieving mother into a national advocate (The Wall Street Journal). Sorrel King was a young mother of four when her eighteen-month-old daughter was badly burned by a faulty water heater in the family’s new home. Taken to the world-renowned Johns Hopkins Hospital, Josie made a remarkable recovery. But as she was preparing to leave, the hospital’s system of communication broke down and Josie was given a fatal shot of methadone, sending her into cardiac arrest. Within forty-eight hours, the King family went from planning a homecoming to planning a funeral. Dizzy with grief, falling into deep depression, and close to ending her marriage, Sorrel slowly pulled herself and her life back together. Accepting Hopkins’ settlement, she and her husband established the Josie King Foundation. They began to implement basic programs in hospitals emphasizing communication between patients, family, and medical staff—programs like Family-Activated Rapid Response Teams, which are now in place in hospitals around the country. Today Sorrel and the work of the foundation have had a tremendous impact on health-care providers, making medical care safer for all of us, and earning Sorrel a well-deserved reputation as one of the leading voices in patient safety. “I cried . . . I cheered” at this account of one woman’s unlikely path from full-time mom to nationally renowned patient advocate (Ann Hood). “Part indictment, part celebration, part catharsis” Josie’s Story is the startling, moving, and inspirational chronicle of how a mother—and her unforgettable daughter—are transforming the face of American medicine (Richmond Times-Dispatch).