Transcending Horizons Through Innovative Global PracticesSafe Management of Wastes from Health-care Activities2019 IEEE 17th International Symposium on Intelligent Systems and Informatics (SISY)Recent Innovations in ComputingProject ManagementMachine Learning Mastery With PythonBlood Donor SelectionHealth Care Systems Engineering for Scientists and PractitionersContemporary Developments and Perspectives in International Health Security2020 IEEE 8th R10 Humanitarian Technology Conference (R10 HTC)Project to ProductStandards for Blood Banks and Transfusion ServicesObject Oriented Systems Analysis and DesignOperations Research and Health and related Technical NoteBlood Bank Technology2019 IEEE Bombay Section Signature Conference (IBSSC)Business InformaticsSystems HV1 and the Blood SupplyStandards for Cellular Therapy ServicesContemporary Advances in Innovative and Applicable Information TechnologyCommerce Business DailyManaging the Web of ThingsApplications and Approaches to Object Oriented Software DesignOffline and Off-budgetApplications and Approaches to Object Oriented Software Design: Emerging Research and OpportunitiesVisual Basic 6 ProgrammingSystems Analysis and Design (Book Only)Intelligent Systems Design and ApplicationsInformation Technology: OMB and Agencies Need to Improve Planning, Management, and Oversight of Projects Totaling Billions of DollarsTen Steps to a Results-Based Monitoring and Evaluation SystemRossi's Principles of Transfusion MedicineThe SAIC SolutionBad BloodCost Analysis of Blood Banking AlternativesBlood Donor CounsellingProject ManagementPatient Blood ManagementDatabase Management System (DBMS)A Practical ApproachScreening Donated Blood for Transfusion-transmissible InfectionsRossi's Principles of Transfusion Medicine is the most comprehensive and practical reference on transfusion science and medicine available. Led by a world class Editor team, including two past-presidents of AABB, a past- President of the American Board of Pathology and members of the FDA Blood Products Advisory Committee, and international contributor team Comprehensive reference resource, considered the gold standard in transfusion Covers current hot topics such as donor care - including the frequency of donation and management of iron deficiency/status), patient blood management, hemovigilance, stem cell therapies, and global aspects of the organization of transfusion and transplant services New material on molecular immunohematology Companion website includes figures, full text and references

In today's modernized environment, a growing number of software companies are changing their traditional engineering approaches in response to the rapid development of computing technologies. As these businesses adopt modern software engineering practices, they face various challenges including the integration of current methodologies and contemporary design models and the refactoring of existing systems using advanced approaches. Applications and Approaches to Object-Oriented Software Design: Emerging Research and Opportunities is a pivotal reference source that provides vital research on the development of modern software practices that impact maintenance, design, and developer productivity. While highlighting topics such as augmented reality, distributed computing, and big data processing, this publication explores the current infrastructure of software systems as well as future advancements. This book is ideally designed for software engineers, IT specialists, data scientists, business professionals, developers, researchers, students, and academicians seeking current research on contemporary software engineering methods.

"Blood transfusion is a life-saving intervention that has an essential role in patient management within health care systems. All Member States of the World Health Organization (WHO) endorsed World Health Assembly resolutions WHA28.72 (1) in 1975 and WHA58.13 (2) in 2005. These commit them to the provision of adequate supplies of safe blood and blood products that are accessible to all patients who require transfusion either to save their lives or promote their continuing or improving health." --Preface.

International health security (IHS) is a broad and highly heterogeneous area. Within this general context, IHS encompasses subdomains that potentially influence (and more specifically endanger) the well-being and wellness of humans. The general umbrella of IHS includes, but is not limited to, natural disasters, emerging infectious diseases (EID) and pandemics, rapid urbanization, social determinants of health, population growth, systemic racism and discrimination, environmental matters, civilian violence and warfare, various forms of terrorism, misuse of antibiotics, and the misuse of social media. The need for this expanded definition of health security stems from the realization that topics such as EID; food, water, and pharmaceutical supply chain safety; medical and health information cybersecurity; and bioterrorism, although important within the overall realm of health security, are not only able to actively modulate the wellness and health of human populations, but also tend to do so in a synergistic fashion. This inaugural tome of a multi-volume collection, Contemporary Developments and Perspectives in International Health Security, introduces many of the topics directly relevant to modern IHS theory and practice. This first volume provides a solid foundation for future installments of this important and relevant book series.

Many books on Database Management Systems (DBMS) are available in the market, they are incomplete very formal and dry. My attempt is to make DBMS very simple so that a student feels as if the teacher is sitting behind him and guiding him. This text is bolstered with many examples and Case Studies. In this book, the experiments are also included which are to be performed in DBMS lab. Every effort has been made to alleviate the treatment of the book for easy flow of understanding of the students as well as the professors alike. This textbook of DBMS for all graduate and post-graduate programmes of Delhi University, GGSIPU, Rajiv Gandhi Technical University, UPTU, WBTU, BPUT, PTU and so on. The salient features of this book are: - 1. Multiple Choice Questions 2. Conceptual Short Questions 3. Important Points are highlighted / Bold faced. 4. Very lucid and simplified approach 5.Bolstered with numerous examples and CASE Studies 6. Experiments based on SQL incorporated. 7. DBMS Projects added Question Papers of various
IEEE Region 10 Humanitarian Technology Conference (R10 HTC) is the premier annual cross disciplinary conference that provides a common platform for engineers, technologists, scientists, investors, representatives from NGOs, governments, academia and the industry to discuss recent advances in Humanitarian Technologies. The conference promotes discussions and presentations from the fields of Electrical & Electronic Engineering, Artificial Intelligence, Computing & IT, Security, Disaster Management, Smart Cities & Villages, Industrial Revolution 4.0, Digital Commerce, Education, Healthcare and relevant areas of research. IEEE R10 HTC 2020 was held in Kuching, Malaysia from December 1 to 3, 2020. The conference is hosted by IEEE Sarawak Subsection with the theme Digital Ecosystem for Humanity. We invite you to submit your original papers and join us in Kuching, a city on the island of Borneo.

During the early years of the AIDS epidemic, thousands of Americans became infected with HIV through the nation's blood supply. Because little reliable information existed at the time AIDS first began showing up in hemophiliacs and in others who had received transfusions, experts disagreed about whether blood and blood products could transmit the disease. During this period of great uncertainty, decisionmaking regarding the blood supply became increasingly difficult and fraught with risk. This volume provides a balanced inquiry into the blood safety controversy, which involves private sexual practices, personal tragedy for the victims of HIV/AIDS, and public confidence in America’s blood services system. The book focuses on critical decisions as information about the danger to the blood supply emerged. The committee draws conclusions about what was done—and what should be done to produce better outcomes in the face of future threats to blood safety. The committee frames its analysis around four critical areas: Product treatment—Could effective methods for inactivating HIV in blood have been introduced sooner? Donor screening and referral—including a review of screening to exclude high-risk individuals. Regulations and recall of contaminated blood—analyzing decisions by federal agencies and the private sector. Risk communication—examining whether infections could have been averted by better communication of the risks.

As tech giants and startups disrupt every market, those who master large-scale software delivery will define the economic landscape of the 21st century, just as the masters of mass production defined the landscape in the 20th. Unfortunately, business and technology leaders are woefully ill-equipped to solve the problems posed by digital transformation. At the current rate of disruption, half of S&P 500 companies will be replaced in the next ten years. A new approach is needed. In Project to Product, Value Stream Network pioneer and technology business leader Dr. Mik Kersten introduces the Flow Framework—a new way of seeing, measuring, and managing software delivery. The Flow Framework will enable your company’s evolution from project-oriented dinosaur to product-centric innovator that thrives in the Age of Software. If you’re driving your organization’s transformation at any level, this is the book for you.

The fed. govt. spends billions of dollars on info. tech. (IT) projects each year. Consequently, it is important that projects be managed effectively to ensure that public resources are wisely invested. To this end, the OMB identifies major projects and requires agencies to identify high-risk projects that are performing poorly. At times, changes to this info. -- called a re-baselining -- are made to reflect changed development circumstances. These changes can be done for valid reasons, but can also be used to mask cost overruns and schedule delays. This report: (1) provides an update on these projects; (2) identifies OMB’s efforts to improve the identification and oversight of these projects; and (3) summarizes the results of an IT project re-baselining report.

The WHO guidelines on assessing donor suitability for blood donation have been developed to assist blood transfusion services in countries that are establishing or strengthening national systems for the selection of blood donors. They are designed for use by policy makers in national blood programmes in ministries of health, national advisory bodies such as national blood commissions or councils, and blood transfusion services.

The aim of SISY 2019 symposium is to offer researchers an opportunity to extend the existing scientific relationships all over the world in the field of Intelligent Systems. Our hope is that researchers and lecturers working at various institutions will find common research areas at the conference so that they can cooperate on bilateral or international projects.

This title is for those doing courses in object-oriented systems analysis and design. The text teaches students object-oriented systems analysis and design in a highly practical and accessible way.

Papers presented at a conference.

The book enriches the literature on different sub-domains of applied information technology. The ICCAIAIT Proceedings presents the high quality research papers presented at ICCAIAIT 2018. The contributions cover the contemporary issues in data analytics, computational intelligence, nature inspired computing, cyber physical systems, cloud computing, social network and intelligent computing on climate change. The volume is an important resource for educationists, academics, scholars and practitioners from both the public and private sectors.

This book highlights recent research on intelligent systems and nature-inspired computing. It presents 62 selected papers from the 19th International Conference on Intelligent Systems Design and Applications (ISDA 2019), which was held online. The ISDA is a premier conference in the field of computational intelligence, and the latest installment...
brought together researchers, engineers and practitioners whose work involves intelligent systems and their applications in industry. Including contributions by authors from 33 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering.

This book features selected papers presented at the 3rd International Conference on Recent Innovations in Computing (ICRIC 2020), held on 20-21 March 2020 at the Central University of Jammu, India, and organized by the university's Department of Computer Science & Information Technology. It includes the latest research in the areas of software engineering, cloud computing, computer networks and Internet technologies, artificial intelligence, information security, database and distributed computing, and digital India.

In both rich and poor nations, public resources for health care are inadequate to meet demand. Policy makers and health care providers must determine how to provide the most effective health care to citizens using the limited resources that are available. This chapter describes current and future challenges in the delivery of health care, and outlines the role that operations research (OR) models can play in helping to solve those problems. The chapter concludes with an overview of this book - its intended audience, the areas covered, and a description of the subsequent chapters. KEY WORDS Health care delivery, Health care planning HEALTH CARE DELIVERY: PROBLEMS AND CHALLENGES 3 1.1 WORLDWIDE HEALTH: THE PAST 50 YEARS Human health has improved significantly in the last 50 years. In 1950, global life expectancy was 46 years [1]. That figure rose to 61 years by 1980 and to 67 years by 1998 [2]. Much of these gains occurred in low- and middle-income countries, and were due in large part to improved nutrition and sanitation, medical innovations, and improvements in public health infrastructure.

"This book explores applications and approaches to object-oriented software design"--

This Handbook provides a comprehensive ten-step model that will help guide development practitioners through the process of designing and building a results-based monitoring and evaluation system.

Individuals who donate their blood provide a unique and precious gift in an act of human solidarity. In order to donate blood, prospective donors should be in good health and free from any infections that can be transmitted through transfusion. Most blood donors perceive themselves to be healthy, but some are unsuitable to donate blood due to the potential risk of compromising or worsening their own health or the risk of transmission of infections to patients. Blood transfusion services (BTS) have a duty of care towards blood donors as well as to the recipients of transfusion. This duty of care extends to prospective donors who are deferred from donation—whether on a temporary or permanent basis—as well as those who donate blood and are subsequently found to have unusual or abnormal test results. BTS have a responsibility to confirm test results and provide information, counseling and support to enable these individuals to understand and respond to unexpected information about their health or risk status. Counseling is part of the spectrum of care that a BTS should be able to provide to blood donors—including referral to medical practitioners or specialist clinical services. Pre-donation counseling was recognized as one element of the strategy to reduce and, if possible, prevent the donation of blood by individuals who might be at risk for HIV and other TTI including hepatitis B and C viruses as well as to inform the donor of the donation process and testing of blood for HIV. Post-donation counseling was acknowledged to be a necessary element of donor management as an adjunct to informing donors of unusual or abnormal test results. Blood donor counseling by trained specialist staff is now considered to be a key component of the blood system in most countries with a well-developed blood transfusion service. It may be required at a number of stages in the blood donation process or following blood screening and should be available at any point at which the BTS has an interface with donors. In many countries, however, blood donor counseling is not yet available in a structured way. Blood Donor Counselling: Implementation Guidelines has therefore been developed to provide guidance to blood transfusion services that have not yet established donor counseling programs.

Patient Blood Management (PBM) is an innovative clinical concept that aims to reduce the need for allogenic blood transfusions, cut health-care costs, and avert or correct the risk factors related to blood transfusion, thus minimizing the rate of side effects and complications. This comprehensive hands-on volume offers a three-point approach for the implementation of PBM to improve patient outcome, focusing on how to prevent or treat anemia, reduce blood loss, and increase anemia tolerance. The book also goes beyond preoperative PBM, with detailed accounts of coagulation disorder management and the administration of coagulation products and platelet concentrates. Special Features: Presents a clear three-pillar strategy for the application of PBM: diagnosis and treatment of anemia, reduction of peri-interventional blood loss, and optimization of the tolerance to anemia in the everyday clinical setting Covers issues such as PBM during surgery, requirements for modern transfusion medicine, ordering blood products, the role of pre-anesthesia clinics, benchmarking processes, and potential implications of PBM in the public health sector Overview of research in PBM including landmark studies and current clinical trials Boxes in each chapter highlighting key information, core statements, and summaries A multidisciplinary and international team of contributors experienced in PBM Patient Blood Management is a guide for clinicians and residents whose patients are at risk for anemia, coagulation disorders, or severe blood loss. Anesthesiologists, surgeons, and specialists involved in the use of blood and blood products can use the book for quick reference or to learn more about a leading-edge concept for optimizing patient safety and improving outcome.

In this volume, scientists and practitioners write about new methods and technologies for improving the operation of health care organizations. Statistical analyses play an important role in these methods with the implications of simulation and modeling applied to the future of health care. Papers are based on work presented at the Second
International Conference on Health Care Systems Engineering (HCSE2015) in Lyon, France. The conference was a rare opportunity for scientists and practitioners to share work directly with each other. Each resulting paper received a double blind review. Paper topics include: hospital drug logistics, emergency care, simulation in patient care, and models for home care services.

Frontiers of Technology Fueling Prosperity of Planet and People

Today’s Most Effective Guide for Applying Project Management to Implement Organizational Strategies -- Now Updated and Expanded! Project Management: Strategic Design and Implementation delivers complete guidance on applying the theory, processes, practices, and techniques of project management to support strategic planning. Written by two world-renowned project management leaders, this new edition presents the latest methods for using flexible teams to implement organizational strategies -- especially changes to products, services, and processes. Designed for use in both large and small organizations, this updated classic ranges from the project management process to project planning, monitoring, evaluation, and controlling to continuous improvement through projects. This resource offers new material on project portfolio management, earned value, project management maturity, nontraditional teams, project partnering, project management outsourcing, and much more. The Fifth edition of Project Management: Strategic Design and Implementation features: Detailed coverage of all advances in project management theory and practice Helpful sections added to each chapter, including chapter summary, additional sources of information, discussion questions, project management principles, case study, assignment, and checklist Updated examples and exercises on key project management topics A larger format with sidebars to highlight major issues This new material: chapters on “The Evolution of Project Management” and “Successful Project Teams” Inside this Updated PM Classic: Introduction to Project Management * The Strategic Context of Projects * Organizational Design for Project Management * Project Operations * Interpersonal Dynamics in the Management of Projects * The Cultural Elements * New Uses of Teams

NATIONAL BESTSELLER • The gripping story of Elizabeth Holmes and Theranos—one of the biggest corporate frauds in history—a tale of ambition and hubris set amid the bold promises of Silicon Valley, rigorously reported by the prize-winning journalist. With a new Afterword. “Chilling Reads like a thriller Carreyrou tells [the Theranos story] virtually to perfection.” —The New York Times Book Review In 2014, Theranos founder and CEO Elizabeth Holmes was widely seen as the next Steve Jobs: a brilliant Stanford dropout whose startup “unicorn” promised to revolutionize the medical industry with its breakthrough device, which performed the whole range of laboratory tests from a single drop of blood. Backed by investors such as Larry Ellison and Tim Draper, Theranos sold shares in a fundraising round that valued the company at more than $9 billion, putting Holmes’s worth at an estimated $4.5 billion. There was just one problem: The technology didn’t work. Erroneous results put patients in danger, leading to misdiagnoses and unnecessary treatments. All the while, Holmes and her partner, Sunny Balwani, worked to silence anyone who voiced misgivings—from journalists to their own employees.

This textbook offers students a systematic guide to how information systems underpin organisational activity in today's global information society, covering everything from ICT infrastructure and the digital environment to electronic marketing, mobile commerce and design thinking. While academically rigorous and underpinned by the author's deep knowledge of the subject, an engaging writing style combined with extensive pedagogical features, cases and innovative examples from around the world ensure that the text remains accessible to those approaching the topic for the first time. Taking an approach that views businesses as complex systems, the book illustrates how valuable systems thinking can be in our everyday working lives, while theoretical ideas are always supported by examples of their application in the real world. This text is the ideal course companion for all students studying business information systems or management systems modules at undergraduate, postgraduate or MBA level. New to this Edition: - New coverage of key contemporary topics, including big data, analytics, cloud computing, the Internet of things, blockchain and bitcoin, green IS, ethics, and cyber security. - Brand new chapters on Mobile Commerce and Social Media, and Designing Digital Organisation (design thinking). - A revised concluding chapter considering contemporary technological trends, as well as reflections and predictions for future innovations.

A new edition of the most popular book of project management case studies, expanded to include more than 100 cases plus a "super case" on the Iridium Project Case studies are an important part of project management education and training. This Fourth Edition of Harold Kerzner’s Project Management Case Studies features a number of new cases covering value measurement in project management. Also included is the well-received "super case," which covers all aspects of project management and may be used as a capstone for a course. This new edition: Contains 100-plus case studies drawn from real companies to illustrate both successful and poor implementation of project management Represents a wide range of industries, including medical and pharmaceutical, aerospace, manufacturing, automotive, finance and banking, and telecommunications Covers cutting-edge areas of construction and international project management plus a “super case” on the Iridium Project, covering all aspects of project management Follows and supports preparation for the Project Management Professional (PMP®) Certification Exam Project Management Case Studies, Fourth Edition is a valuable resource for students, as well as practicing engineers and managers, and can be used on its own or with the new Eleventh Edition of Harold Kerzner’s landmark reference, Project Management: A Systems Approach to Planning, Scheduling, and Controlling. (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)

The Python ecosystem with scikit-learn and pandas is required for operational machine learning. Python is the rising platform for professional machine learning because you can use the same code to explore different models in R&D then deploy it directly to production. In this Ebook, learn exactly how to get started and apply machine learning using the Python ecosystem.
Managing the Web of Things: Linking the Real World to the Web presents a consolidated and holistic coverage of engineering, management, and analytics of the Internet of Things. The web has gone through many transformations, from traditional linking and sharing of computers and documents (i.e., Web of Data), to the current connection of people (i.e., Web of People), and to the emerging connection of billions of physical objects (i.e., Web of Things). With increasing numbers of electronic devices and systems providing different services to people, Web of Things applications present numerous challenges to research institutions, companies, governments, international organizations, and others. This book compiles the newest developments and advances in the area of the Web of Things, ranging from modeling, searching, and data analytics, to software building, applications, and social impact. Its coverage will enable effective exploration, understanding, assessment, comparison, and the selection of WoT models, languages, techniques, platforms, and tools. Readers will gain an up-to-date understanding of the Web of Things systems that accelerates their research. Offers a comprehensive and systematic presentation of the methodologies, technologies, and applications that enable efficient and effective management of the Internet of Things Provides an in-depth analysis on the state-of-the-art Web of Things modeling and searching technologies, including how to collect, clean, and analyze data generated by the Web of Things Covers system design and software building principles, with discussions and explorations of social impact for the Web of Things through real-world applications Acts as an ideal reference or recommended text for graduate courses in cloud computing, service computing, and more

SYSTEMS ANALYSIS AND DESIGN, TENTH EDITION offers a practical, visually appealing approach to information systems development. Throughout the book, real-world case studies emphasize critical thinking and IT skills in a dynamic, business-related environment. The new Tenth Edition will help prepare students for success in today’s intensely competitive business world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.