

Jai Prakash Narayan Apex Trauma Centre All India Institute

The prevention and control of infection in healthcare environments is now more important than ever. From simple hand washing to full PPE (personal protective equipment), hygiene maintenance has never been more at the forefront of people's minds than during the Coronavirus COVID-19 outbreak. This book is a practical guide to the prevention and control of healthcare and laboratory-associated infections. Divided into twelve sections, the text begins with an introduction to the basic science of infection and the use of antimicrobial agents. The following sections cover prevention and control of infection in different environments and situations including hospitals, laboratories, specific patient groups, and high risk and procedure areas. Different infection transmission methods are discussed in depth. The book concludes with guidance on standards and sample protocols, and training techniques. The comprehensive text is further enhanced by images and flow charts, and each chapter includes MCQs (multiple choice questions) to assist learning and revision. Key points

Comprehensive guide to prevention and control of infection in healthcare environments
Covers different environments, patient groups and infection transmission methods
Features

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images and flow charts to assist learning Each chapter concludes with MCQs on the topic This new edition is a complete guide to paediatric dentistry for undergraduate and postgraduate dental students. Divided into nineteen sections, the book begins with an introduction to the specialty, oral examination, teeth identification and numbering, imaging, and growth and development of a child's face, mouth and teeth. The next chapters discuss diet and nutrition, plaque control and fluorides, and dental caries. Dental subspecialties including endodontics, orthodontics, restorative dentistry, periodontics, and surgery, each have their own dedicated sections. The concluding chapters cover oral pathology, forensics, lasers, dental advances, and research. The fourth edition has been fully revised to provide the latest information in the field and features many new topics including zirconia crowns, revascularisation and pulp regeneration, silver diamine fluoride, general anaesthesia, and presurgical nasoalveolar moulding in the management of cleft lip and palate. Key points Complete guide to paediatric dentistry for dental students Fully revised fourth edition with many new topics Highly illustrated with more than 1000 clinical photographs, diagrams and tables Previous edition (9789351522324) published in 2014 The consorted endeavor of one of the Mastering Orthopedic Techniques: Intra-articular Fractures,

attempts to deal with the exclusive intra-articular fractures. Trauma, in the current context, is the major factor in the intra-articular fractures. The principles of intra-articular fracture management have not changed recently; the articular fragments require osteosynthesis with anatomical reduction and interfragmentary compression. The new principle is to provide relative stability, preferably with indirect reduction for the metaphyseal components. All practical surgical options are included with.

Textbook of Critical Care is an extensive two volume guide to all aspects of critical care. The first volume covers systems of the human body in individual sections; the second volume continues to cover other vital topics for those working in an intensive care unit. With over 100 international contributors ensuring authoritative content throughout, and full colour illustrations across 1500 pages, Textbook of Critical Care is a valuable resource for residents, intensivists, and emergency medicine doctors.

This atlas is a comprehensive guide to critical care for intensivists. Divided into eight sections, the book begins with discussion on airway management. The following sections describe critical care for different sub specialties – respiratory system, cardiology, gastroenterology and neurology. The final sections cover trauma cases, microbiology and miscellaneous topics which provide an overview of rheumatology,

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nephrology, haematology, ultrasound and more. The book is highly illustrated with more than 1100 clinical photographs, diagrams, radiological images and tables. Key points Comprehensive guide to critical care for intensivists Covers key sub specialties Includes trauma cases Highly illustrated with more than 1100 photographs, diagrams and radiological images

Whenever a student decides to prepare for any examination, her/his first and foremost curiosity is about the type of questions that he/she has to face. Keeping this in mind, we present before you this book containing date wise and shift wise all 10 years solved papers of NDA Paper - 2 with answer and solutions to majority of questions. Solutions to the questions are not just sketch rather have been written in such a manner that the students will be able to understand the application of concept and can answer some other related questions too.

Salient features of the book are - Covers all 10 papers of NDA Paper - 2 Detailed Errorless Solutions for self-evaluation We firmly believe that the book in this form will definitely help a genuine, hardworking student for upcoming NDA Exam . We have tried our best to keep errors out of this book. Comment and criticism from readers will be highly appreciated and incorporated in the subsequent edition. We wish to utilize the opportunity to place on record our special thanks to all team members of

Content Development for their efforts to make this wonderful book. Career Point Ltd.

This book Hospital Infection Control Guidelines: Principles and Practice aims to provide comprehensive, acceptable, implementable and effective guidelines on Infection Control in various healthcare facilities. The book deliberates on all aspects of infection control in healthcare facilities including prevention, processes, infrastructure and training. Analyses the existing guidelines on infection control and recommends micro- and macro-guidelines appropriate to healthcare facilities at various levels, i.e. primary, secondary and tertiary. As per the World Health Organization statistics, at any.

This book provides an overview of calcaneal (heel) fracture management principles, emergency and complication management practices and is illustrated throughout with more than 300 full colour, highly informative drawings, photographs and radiographs. The format is simple and self explanatory, beginning with an introduction to the history and anatomy of calcaneal injuries, followed by discussion on initial diagnosis and stabilisation of fractures, recommended imaging studies, operative and non-operative management protocols and evidence-based treatment guidelines. In addition, this book features rehabilitation aspects, as well as outcome evaluation methods. This unique text is authored by

highly experienced orthopaedic surgeons from Europe, the US, Canada and Asia, including Nicola Maffulli MD MS PhD FRCP FRCS (Ortho) FFSEM, President of The Italian Society of Muscles, Ligaments & Tendons, and co-author of Rotator Cuff Disorders: Basic Science and Clinical Medicine, also available from JP Medical Ltd (9781907816086). Fractures of the Calcaneus includes a DVD ROM of nine videos demonstrating surgical procedures for the management of calcaneal fractures. Key points Complete overview of diagnosis and management of calcaneal (heel) fractures Features more than 300 full colour drawings, photographs and radiographs Highly experienced, international author and editor team Includes DVD ROM demonstrating surgical techniques

Yearbook of Anesthesiology - 9 is an up-to-date guide to the latest advances in anaesthesiology practice. Comprising 25 chapters covering all three specialties associated with anaesthesiology – regional and general anaesthesia, pain, and intensive care - this book presents the most recent information in the field, in a concise and highly illustrated format. The book covers the complete field from techniques and post-surgical recovery, to pharmacology, non-technical skills and medicolegal issues. This new volume features chapters on anaesthetic issues in the management of elderly or paediatric patients; the status of platelet rich plasma

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in chronic pain conditions and degenerative diseases; and double lumen endotracheal tubes and gas embolism. The final chapter of the book - Journal Scan – covers recent articles published in respected journals, accompanied by reviews and interpretations by experts in the field. Key points Up-to-date guide to latest advances in anaesthesiology In depth coverage of all three sub-specialties – regional and general anaesthesia, pain, and intensive care Features new topics including management of elderly or paediatric patients; the status of platelet rich plasma in chronic pain conditions and degenerative diseases; and double lumen endotracheal tubes and gas embolism Includes recent journal articles with reviews and interpretations by experts in the field

Issues in Infectious and Vector-Borne Diseases: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Infectious and Vector-Borne Diseases. The editors have built Issues in Infectious and Vector-Borne Diseases: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Infectious and Vector-Borne Diseases in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Infectious and Vector-Borne Diseases: 2011 Edition has been

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Mental and physical disorders are common in old age but frequently remain undetected and untreated. Managing treatment and controlling symptoms of these disorders is imperative to the longevity and quality of life of patients. The Handbook of Research on Geriatric Health, Treatment, and Care provides emerging research on promoting health in older adults by preventing and treating diseases and disabilities. By highlighting topics such as alternative treatment, clinical diagnosis, and positive psychology, this publication explores the methods and approaches of identifying and diagnosing epidemiological factors that contribute to geriatric health issues. This book is an important resource for healthcare professionals, academicians, medical practitioners, researchers, and students seeking current research on the methods and strategies for maintaining healthy and successful care for the elderly.

April 26-27, 2018 Rome, Italy Key Topics : Current Challenges in Developing Biosimilars, Emerging Biosimilars in Therapeutics, Analytical Strategies for Biosimilars, Regulatory Approach of Biosimilars,

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Innovative Approach for Biosimilars, Consequences of Brexit on Biosimilars, Globalization of Biosimilars, Clinical Development of Biosimilars, Biosimilar Market and Cost Analysis, Challenges in Biosimilars Pharmacovigilance, Entrepreneurs Investment Meet, Legal Issues and BPCI Act, Biosimilars Research Pipeline, Intellectual Property Rights, Bioequivalence Assessment, BCS and IVIVC Based Biowaivers, Biosimilar Companies and Market Analysis, Biologic Drugs, Biological Medicine, Biowaiver, Biobetters, The present two volume book "Brain Injury" is distinctive in its presentation and includes a wealth of updated information on many aspects in the field of brain injury. The Book is devoted to the pathogenesis of brain injury, concepts in cerebral blood flow and metabolism, investigative approaches and monitoring of brain injured, different protective mechanisms and recovery and management approach to these individuals, functional and endocrine aspects of brain injuries, approaches to rehabilitation of brain injured and preventive aspects of traumatic brain injuries. The collective contribution from experts in brain injury research area would be successfully conveyed to the readers and readers will find this book to be a valuable guide to further develop their understanding about brain injury. Injury is an increasingly significant health problem throughout the world, accounting for 16 per cent of the global burden of disease. The public health burden of death and disability from injury is particularly notable in low and middle income countries. These guidelines seek to establish practical and affordable standards applicable

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to injury or trauma care worldwide, whether in rural health posts, small hospitals, hospitals staffed by specialists or tertiary care centres. It sets out a list of key trauma treatment services designed to be achievable in all settings, and defines the various human and physical resources required. It also includes a number of recommendations for methods to promote such standards including training, performance improvement, trauma team organisation and hospital inspection. Drawing from recent concepts and data, the book carefully examines responsiveness of drug, vaccine and medical device innovations to public health priorities in India. It also emphasises the need for a responsible and responsive health innovation framework in which interests of all stakeholders are taken care of.

Epigenetics and Metabolomics, a new volume in the Translational Epigenetics series, offers a synthesized discussion of epigenetic control of metabolic activity, and systems-based approaches for better understanding these mechanisms. Over a dozen chapter authors provide an overview of epigenetics in translational medicine and metabolomics techniques, followed by analyses of epigenetic and metabolomic linkage mechanisms likely to result in effective identification of disease biomarkers, as well as new therapies targeting the removal of the inappropriate epigenetic alterations. Epigenetic interventions in cancer, brain damage, and neuroendocrine disease, among other disorders, are discussed in-depth, with an emphasis on exploring next steps for clinical translation and personalized healthcare. Offers a synthesized discussion of epigenetic regulation of metabolic activity and systems-based approaches to power new research Discusses epigenetic

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control of metabolic pathways and possible therapeutic targets for cancer, neurodegenerative, and neuroendocrine diseases, among others Provides guidance in epigenomics and metabolomic research methodology

A practical guide to the principles and methods of cost analysis as a managerial tool for improving the efficiency of hospitals. Addressed to managers and administrators, the manual aims to equip its readers with the knowledge and skills needed to calculate the costs of different activities or departments, analyse their significance, and use this information to manage resources wisely. Throughout, recommendations and advice are specific to the different purposes of cost analysis and the different types of decisions commonly facing managers. The manual, which is intended for use as a training tool, was finalized following extensive field testing in workshops in Bangladesh, Egypt, and Zimbabwe. Methods of cost-finding and cost analysis are thoroughly explained and illustrated with practical examples and model step-by-step procedures for performing calculations. Since hospital accounting systems in developing countries may have gaps or inaccuracies, the manual gives particular attention to reliable methods for estimating costs when existing data are problematic. The manual opens with an explanation of the many advantages of using cost-finding and cost analysis as managerial tools. These include the provision of data needed for informed decisions on operations and infrastructure investment, the planning of future budgets, the establishment of charges for patient services, and the development of mechanisms for ensuring that costs do not exceed available revenues and subsidies. Against this background, the core of the manual is presented in three chapters. The first and most extensive chapter explains how to allocate costs to cost centres and how to compute unit costs. Information and examples are presented according to

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seven steps. Each is discussed in terms of the types of data needed, how component cost items should be treated, and how costs can be computed in particular situations or cases. Practical examples are used to illustrate the types of questions addressed in cost analysis and the value of this information in guiding decisions. Chapter two explains how cost data can be used to improve the management of an individual hospital. Information is intended to guide decisions at both the cost centre, or department, level and the hospital level. Managerial tasks covered include budgeting, profitability, efficiency improvements, contracting outside services or producing in-house, and assessing fiscal solvency. Chapter three considers the use of cost data in managing national and regional hospital systems. Specific applications include improvements in the referral system, the appropriate use of different providers of services, and the comparison of similar hospitals to identify inefficiencies or sources of waste. The manual concludes with a series of practical exercises, followed by explanations of their answers. This book shares the latest developments and advances in materials and processes involved in the energy generation, transmission, distribution and storage. Chapters are written by researchers in the energy and materials field. Topics include, but are not limited to, energy from biomass, bio-gas and bio-fuels; solar, wind, geothermal, hydro power, wave energy; energy-transmission, distribution and storage; energy-efficient lighting buildings; energy sustainability; hydrogen and fuel cells; energy policy for new and renewable energy technologies and education for sustainable energy development.

Covering the most important topics in trauma anesthesia, this updated edition provides anesthesiology trainees and practitioners with a practical basis for managing trauma patients. Many recent advances in trauma care are identified,

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including paradigm shifts in the management of bleeding and coagulopathy, new neuromuscular blockade and anticoagulant reversal drugs, and updated clinical practice guidelines. This volume provides a concise, practical review of the essential elements in the care of the severely injured trauma patient, including emergency airway management, fluid and blood resuscitation, monitoring, coagulation therapy, regional and general anesthesia, and perioperative care. Edited by two of the most experienced trauma anesthesiologists in the United States, with chapters written by experts from leading US and Canadian trauma centers with the highest and most varied caseload of critically injured patients, *Essentials of Trauma Anesthesia* identifies new trends in surgery and anesthesiology practices that impact on the management of trauma patients.

Total knee replacements (TKRs) are very successful procedures, but they eventually wear out and sometimes complications may develop, requiring a further operation – revision knee replacement. A revision or ‘re-do’ total knee replacement procedure involves the removal of the existing TKR and its replacement with new components. This book presents orthopaedic surgeons with the latest developments, current indications and critical issues in revision knee arthroplasty, providing in depth discussion on surgical reconstruction of the knee and basic knee joint deformities. Part of the successful *Mastering Orthopedic Techniques* series, the book is highly illustrated with surgical photographs, operative diagrams, X-Ray images and tables. Other titles in the series include *Total Knee Arthroplasty*, *Total Hip Arthroplasty*, *Revision Total Hip Arthroplasty*, *Spine Surgery*, *Intra-articular Fractures*, and *Knee Reconstruction*. *Key Points Complete guide to revision knee arthroplasty for orthopaedic surgeons* Presents latest advances, current indications and critical issues. Highly illustrated with surgical

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photographs, diagrams, X-Rays and tables Part of the successful Mastering Orthopedic Techniques series This book reviews current techniques in imaging of the temporal bone and associated disorders. Beginning with an introduction to normal anatomy and the various imaging modalities, the following sections discuss various disorders. Each topic is presented in a step by step format and illustrative cases are provided for each section.

The new edition of this comprehensive guide has been fully revised to provide clinicians with the very latest information and developments in the field of diagnostic imaging of the gastrointestinal and hepatobiliary system. Beginning with an overview of imaging techniques for the abdomen, the following sections discuss radiological methods for diagnosing different diseases and disorders in the bowel, liver, biliary tree, and pancreas. The final section covers miscellaneous topics including imaging in abdominal trauma, imaging of the spleen, imaging of the postoperative abdomen, and portal hypertension. Each case provides in depth coverage of all clinicopathological aspects with radiological correlation. The fourth edition of this atlas features nine brand new chapters including clinical and radiological aspects of ischemic bowel disease, liver transplant, malignant pathology of the biliary tract, chronic pancreatic, and more. More than 1000 clinical images, diagrams and tables enhance learning. Key Points Fully revised, fourth edition presenting latest advances in diagnostic imaging of the gastrointestinal and hepatobiliary system Includes nine new chapters Features more than 1000 images and

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illustrations Previous edition (9788184484342) published in 2008

This book focuses on controversial issues in neuroanesthesia and neurocritical care that in general have been subjected to insufficient professional scrutiny. The book is in three parts, the first of which is devoted to topics relating to traumatic brain and spinal cord injury, such as brain tissue oxygenation, the role of biomarkers, and diagnosis of brain death. Aspects of airway and pain management are then addressed, covering, for example, airway management in an emergency setting, airway evaluation in the edentulous patient, and pain management in neurosurgery and after craniotomy. The final part of the book considers a wide range of other challenging subjects in the field of neuroanesthesia and neurocritical care. Throughout, much information is provided on the latest, state of the art management. The authors are acknowledged experts in the issues they discuss, and the book will be of interest for graduate and undergraduate students, residents, neuroanesthetists, neurointensivists, emergency medicine residents and specialists, fellows in neurocritical care and all those directly involved in the perioperative care of patients with head and neck pathology.

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