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2J143D - BOOTH JAELYN

Many NATO nations have soldier modernization programmes that aim to equip soldiers with fully-integrated state-of-the-art technologies that will enhance the five NATO soldier capability areas: lethality, protection, mobility, sustainability, and command and control. Military load carriage systems (LCS), which include clothing and personal areas. In particular, LCS are critical to soldier mobility and sustainability, and ultimately, to soldier performance and survival on the battlefield.

Nine years have passed since the first edition of *Care of the Critically Ill Patient* was published. As its editors Maurice Rapin and I were fortified by the many positive and helpful comments of reviewers and readers: the work appeared to have fulfilled our original aims and objectives. Intensive care medicine has, of course, advanced and changed in many ways since 1982 and it therefore seemed appropriate to consider the preparation of a second edition. Encouraged by the reception of the first and the timely prompting of the publishers we began, in 1986, to prepare for a new edition. Caring for critically ill patients is of universal concern and we were therefore delighted when Warren Zapol joined us as C'n editor widening our international base. The three of us subsequently spent many happy and productive times together planning the content, priorities, scale and contributions for the new edition. A great tragedy then overcame us: Maurice Rapin died suddenly. His death deprived us of a true friend and colleague who had been an international pioneer during the development of intensive care medicine. I will always remember, with affection and professional pride, the many hours he and I worked together in preparing the first edition of this book and also as founding editors of the now firmly established journal *Intensive Care Medicine*. An obituary, written by Warren Zapol, that appeared in the journal follows the Preface.

Still the only book published anywhere in the world which is devoted entirely to the principles of aeromedical transport, *Aeromedical Transportation* has rightly become known as the sole reference for the industry. This second edition has been radically revised and updated; featuring the latest research, updated references and new chapters on the transport of intensive care patients, and medical emergencies/death in flight. Since the first edition was published in 1996, the concept of 'evidence-based medicine' has been accepted as essential in any book which endeavours to be the accepted knowledge base in its subject area. A very practical text, international in its approach, much of its content is devoted to clinical matters. Administration and organisation are also discussed, but

are addressed from the standpoint of the clinical aeromedical escort. The text is suitable for medical, paramedical and nursing personnel and for those working in organizations whose duties include the transportation of the sick and injured by air.

ABC of Transfer and Retrieval Medicine provides the key information required to help health care professionals involved in the movement of critically ill patients to do so safely, correctly and with confidence. Beginning with the practical and clinical considerations to be taken into account during patient transfer and an overview of transfer equipment, it then addresses pharmacological aspects of patient transfer, the roles and responsibilities of the transfer team, and the requirements of neonatal, paediatric and specialist transfers. Mapped against the syllabus for the Diploma of Retrieval and Transfer Medicine (Royal College of Surgeons of Edinburgh), it has been developed as a core resource for the diploma whilst providing an invaluable resource for any healthcare professional involved in the transfer of critically ill patients including anaesthetists, intensivists, nurses from ICU/ED and paramedics. It also includes frameworks for radiology and arterial blood gas interpretation, guidance on patient triage, transfer checklists and equipment checklists, and a summary of the relevant national guidelines. From a multidisciplinary international author team, this new addition to the ABC series is a useful resource for all health care professionals involved in the transfer of patients. It is relevant to anaesthetists, intensivists, paramedics, critical care and emergency department nursing staff who are required to take part in intra and inter hospital transfers.

A history of the quest to reverse sudden death ranges from biblical times to the age of gladiators to a resuscitation in suburban Washington, tracing the medical breakthroughs leading to modern techniques such as CPR

Update and empower your neonatal and newborn intensive care unit (NICU) nursing know-how, with the evidence-based *Developmental Care of Newborns and Infants, 3rd Edition*. This leading text on developmentally supportive care of infants and their families addresses the full spectrum of neonatal care, from prenatal planning to delivery, plus neonatal intensive care and the transition to home. A completely updated version of the respected National Association of Neonatal Nurses (NANN) publication, this is the definitive guide for learning current care standards, and the ideal foundation for neonatal nurses, students, and NICU nurses.

The second edition of *Paediatric Surgery* has been designed to be highly relevant to the practice of

clinical paediatric surgery. With this in mind, topics are presented in a clear and easily digestible format, with the most important learning points in each area clearly identified. The principles of the basic sciences, and how these relate to compe

Noninvasive mechanical ventilation is an effective technique for the management of patients with acute or chronic respiratory failure. This comprehensive and up-to-date book explores all aspects of the subject. The opening sections are devoted to theory and equipment, with detailed attention to the use of full-face masks or helmets, the range of available ventilators, and patient-ventilator interactions. Clinical applications are then considered in depth in a series of chapters that address the use of noninvasive mechanical ventilation in chronic settings and in critical care, both within and outside of intensive care units. Due attention is also paid to weaning from conventional mechanical ventilation, potential complications, intraoperative applications, and staff training. The closing chapters examine uses of noninvasive mechanical ventilation in neonatal and pediatric care. This book, written by internationally recognized experts, will be an invaluable guide for both clinicians and researchers.

One of the key tools in effectively managing critical illness is the use of mechanical ventilator support. This essential text helps you navigate this rapidly evolving technology and understand the latest research and treatment modalities. A deeper understanding of the effects of mechanical ventilation will enable you to optimize patient outcomes while reducing the risk of trauma to the lungs and other organ systems. A physiologically-based approach helps you better understand the impact of mechanical ventilation on cytokine levels, lung physiology, and other organ systems. The latest guidelines and protocols help you minimize trauma to the lungs and reduce patient length of stay. Expert contributors provide the latest knowledge on all aspects of mechanical ventilation, from basic principles and invasive and non-invasive techniques to patient monitoring and controlling costs in the ICU. Comprehensive coverage of advanced biological therapies helps you master cutting-edge techniques involving surfactant therapy, nitric oxide therapy, and cytokine modulators. Detailed discussions of both neonatal and pediatric ventilator support helps you better meet the unique needs of younger patients.

This text covers the neonatal and pediatric patient in a single work by a group of nationally recognized contributors from a wide variety of specialties, including respiratory care, pulmonology, cardiology, etc. It is comprehensive enough to serve as both a textbook and a reference source. It emphasizes competency in clinical and technical skills and includes coverage of pediatric intensive care. An instructor's manual, clinical handbook, workbook, and slide set are available.

Provides comprehensive practical guidance on resuscitation and acute medical care.

This book examines the health/fitness interaction in an historical context. Beginning in primitive hunter-gatherer communities, where survival required adequate physical activity, it goes on to consider changes in health and physical activity at subsequent stages in the evolution of "civilization." It focuses on the health impacts of a growing understanding of medicine and physiology, and the emergence of a middle-class with the time and money to choose between active and passive leisure pursuits. The book reflects on urbanization and industrialization in relation to the need for public health measures, and the ever-diminishing physical demands of the work-place. It then evaluates the attitudes of prelates, politicians, philosophers and teachers at each stage of the process. Finally, the

book explores professional and governmental initiatives to increase public involvement in active leisure through various school, worksite, recreational and sports programmes.

Germany's economic miracle is a widely-known phenomenon, and the world-leading, innovative products and services associated with German companies are something that others seek to imitate. In *The 'Made in Germany' Champion Brands*, Ugesh A. Joseph provides an extensively researched, insightful look at over 200 of Germany's best brands to see what they stand for, what has made them what they are today, and what might be transferable. The way Germany is branded as a nation carries across into the branding of its companies and services, particularly the global superstar brands - truly world-class in size, performance and reputation. Just as important are the medium-sized and small enterprises, known as the 'Mittelstand'. These innovative and successful enterprises from a wide range of industries and product / service categories are amongst the World market leaders in their own niche and play a huge part in making Germany what it is today. The book also focuses on German industrial entrepreneurship and a selection of innovative and emergent stars. All these companies are supported and encouraged by a sophisticated infrastructure of facilitators, influencers and enhancers - the research, industry, trade and standards organizations, the fairs and exhibitions and all the social and cultural factors that influence, enhance and add positive value to the country's image. Professionals or academics interested in business; entrepreneurship; branding and marketing; product or service development; international trade and business development policy, will find fascinating insights in this book; while those with an interest in Germany from emerging industrial economies will learn something of the secrets of German success.

Advanced Paediatric Life Support is the internationally renowned manual on emergency paediatric care, written to support the course run by the Advanced Life Support Group. Using their structured approach, a tried and tested practical method of treating children during the crucial first few hours of a life threatening illness or injury, *Advanced Paediatric Life Support* is used by doctors, nurses and allied health professionals dealing with emergencies in children. Its clear layout and straightforward style make it a highly practical tool both for training and in the event of an emergency. The sixth edition includes major new features bringing it right up to date, including: The latest International Liaison Committee on Resuscitation (ILCOR) 2015 Guidelines The latest consensus guidelines on paediatric trauma Enhanced discussions on the importance of human factors A new and improved design including full colour photographs and diagrams Free access to the Wiley E-Text With this book at hand, all those providing care during paediatric emergencies can be confident in having comprehensive and authoritative guidance on the recognition and management of life threatening conditions necessary to save a child's life. This title is also available as a mobile App from MedHand Mobile Libraries. Buy it now from iTunes, Google Play or the MedHand Store.

Contains a list of all manufacturers and other specified processors of medical devices registered with the Food and Drug Administration, and permitted to do business in the U.S., with addresses and telephone numbers. Organized by FDA medical device name, in alphabetical order. Keyword index to FDA established standard names of medical devices.

The sixth edition of *Oh's Intensive Care Manual* provides practical, concise information on all aspects of intensive care. Written in a clear and accessible style and now for the first time presented in

colour throughout, this book enables the user to manage a patient in an ICU setting effectively without recourse to large text/reference works or specialized monographs. This thoroughly revised and updated edition reflects the best and most current practice from leading centres in Australia, the UK and Western Europe. Although primarily intended for the trainee and practitioner in intensive care, nurses and other allied health professionals will find that this is an invaluable tool in helping to deal with a broad spectrum of conditions encountered in the ICU. Represents a consensus of practice/standard of care in Australia/NZ, UK and Europe. Treatment guidelines are authoritative since they follow those that are Recommended/laid down by Professional societies. Comprehensive, covers all important areas of intensive care medicine. Provides a single resource that will cover everything that a user will need to know during the course of an ICU rotation. No need to refer to a larger textbook. Information on management and treatment of conditions is balanced by pathophysiological and pharmacological background. This is not just a "cook book" of procedures. It provides all of the essential information for candidates wishing to pass professional examinations. Covers the paediatric as well as the adult patient in the ICU. Provides quick access and practical guidance for all clinical scenarios. Extensive list of key references most taken from the last three years. Helps trainees and practitioners prepare for case conference/presentations. Addition of colour throughout to highlight summary boxes, tables, charts and flow diagrams. Will make key information more accessible, easier and faster to retrieve. Line drawings extensively re-done in colour throughout. Will improve the user's understanding of the physiological processes under discussion. 5-10 Key points added at end of chapters. Will provide the user with a useful summary of the essential bottom line information. Pitfalls in treatment and management emphasized in each chapter. Provides the user with expert advice on practical issues that will be encountered on a day-to-day basis in the ICU. Includes the most current classification and "clinical scoring schemes. Keeps the user abreast of the latest developments in diagnosis and management.

When faced with productivity problems in the workplace, engineers might call for better machines, and management might call for better-trained people, but ergonomists call for a better interface and better interaction between the user and the machine. Introduction to Ergonomics, 2nd Edition, provides a comprehensive introduction to ergonomics as the study of the relationship between people and their working environment. The author presents evidence from field trials, studies and experiments that demonstrate the value of ergonomics in making the workplace safer, more error resistant, and compatible with users' characteristics and psychological and social needs. Evidence for the effectiveness of each topic is incorporated throughout the book as well, which helps practitioners to make the case for company investment in ergonomics. In addition, the author outlines international standards for ergonomics that influence engineering and design and pave the way for a more precise form of practice. Extensively revised and updated, this second edition explains the main areas of application, the science that underpins these applications, and demonstrates the cost-effectiveness of implementing the applications in a wide variety of work settings.

This project-oriented facilities design and material handling reference explores the techniques and procedures for developing an efficient facility layout, and introduces some of the state-of-the-art tools involved, such as computer simulation. A "how-to," systematic, and methodical approach leads readers through the collection, analysis and development of information to produce a quality function-

nal plant layout. Lean manufacturing; work cells and group technology; time standards; the concepts behind calculating machine and personnel requirements, balancing assembly lines, and leveling workloads in manufacturing cells; automatic identification and data collection; and ergonomics. For facilities planners, plant layout, and industrial engineer professionals who are involved in facilities planning and design.

"This brand new title in the ABC series provides a comprehensive overview of pre-hospital medicine, including transport, patient assessment, emergency care systems, and pre-hospital interventions. With pre-hospital care being the start of the "trauma chain", the treatment patients receive on-scene as well as en-route can be life-saving, and this new title is invaluable for all staff involved in emergency and pre-hospital medicine"--Provided by publisher.

The definitive treatment on the medical evacuation and management of injured patients in both peace- and wartime. Edited by eminent experts in the field, this text brings together medical specialists from all four branches of the armed services. It discusses the history of aeromedical evacuation, triage and staging of the injured patient, evacuation from site of injury to medical facility, air-frame capabilities, medical capabilities in-flight, response to in-flight emergencies, and mass emergency evacuation. Specific medical conditions are addressed in detail, including such general surgical casualties as abdominal wounds and soft tissue, vascular, maxillofacial, head and spinal cord injuries, ophthalmologic, orthopaedic, pediatric, obstetric-gynecologic casualties, burns, and more. Over 80 illustrations provide a review of transport equipment and both medical and surgical treatment. A must-have reference for all armed forces physicians and flight surgeons, for general and trauma surgeons, internists, intensive care specialists, orthopaedic surgeons, and public health service physicians.

As sports have become more competitive over recent years researchers and trainers have been searching for new and innovative ways of improving performance. Ironically, an area as mundane as what an athlete eats can have profound effects on fitness, health and ultimately, performance in competition. Sports have also gained widespread acceptance in the therapeutic management of athletes with disorders associated with nutritional status. In addition, exercise has been one of the tools used for studying the control of metabolism, creating a wealth of scientific information that needs to be placed in the context of sports medicine and science. Nutrition in Sport provides an exhaustive review of the biochemistry and physiology of eating. The text is divided into three sections and commences with a discussion of the essential elements of diet, including sections on carbohydrates, proteins, fats, vitamins and trace elements, and drugs associated with nutrition. It also discusses athletes requiring special consideration, including vegetarians and diabetics. The second section considers the practical aspects of sports nutrition and discusses weight control (essential for sports with weight categories and athletes with eating disorders), the travelling athlete (where travel either disrupts established feeding patterns or introduces new hazards), environmental aspects of nutrition (including altitude and heat), and the role of sports nutritional products.

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The leading resource for more than two decades, this new edition of MOSBY'S RESPIRATORY CARE EQUIPMENT (formerly authored by Stephen P. McPherson) features a new, in-depth clinically oriented focus with thorough explanations of how equipment is used by respiratory care practitioners. New chapters include noninvasive assessment of physiologic functioning, blood gas analysis, principles of infection control, and sleep diagnostics. In addition, new content covers incentive spirometry, IPPB devices, and chest physiotherapy. Features like the "how-to" focus of the mechanical ventilator discussion, Clinical Practical Guideline excerpts, Decision Making and Problem Solving boxes, and internet resources set this book apart from the rest. The new art, a new focus, new features and a new author team make this the most sought-after edition ever! * Over 650 (300 new) line drawings and photographs to help students learn faster and easier. Full-page line drawings of ventilator control panels allow for easy identification of controls. * Review questions at the end of each chapter include multiple-choice questions modeled after those on the NBRC exam as well as critical-thinking

questions to prepare the student to practice as a Respiratory Therapist. * All key terms are listed in a glossary at the end of the book to help students learn easier.

This book provides a basic clinical guide to the principles and practice of artificial ventilation, both manual and mechanical. It covers the development of artificial ventilation through the ages and the essential anatomy and physiology behind it. While there are many detailed texts available on mechanical ventilation, they are usually aimed at the hospital specialist and cover the many complex modes of ventilation used in the hospital setting. This book covers the basics of airway and ventilation management for non-specialists working in pre-hospital and emergency medicine. It fulfils the need for a resource that explains simply and clearly basic respiratory physiology, the pathophysiology behind respiratory failure and the practical aspects of artificial ventilation. This book links the two areas of hospital and pre-hospital practice together to promote better understanding of artificial ventilation by medical, paramedical and nursing personnel working in different fields of medicine.

Reverse engineering encompasses a wide spectrum of activities aimed at extracting information on the function, structure, and behavior of man-made or natural artifacts. Increases in data sources, processing power, and improved data mining and processing algorithms have opened new fields of application for reverse engineering. In this book, we present twelve applications of reverse engineering in the software engineering, shape engineering, and medical and life sciences application domains. The book can serve as a guideline to practitioners in the above fields to the state-of-the-art in reverse engineering techniques, tools, and use-cases, as well as an overview of open challenges for reverse engineering researchers.