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Intensive Science and Virtual Philosophy Routledge Intensive German Course OSCEs for Intensive Care Medicine Routledge Intensive Italian Course The Intensive Care Unit Manual Pharmacology for Anaesthesia and Intensive Care Intensive Family Therapy Oh's Intensive Care Manual E-Book Routledge Intensive Russian Course The Beginner's Guide to Intensive Care Intensive English Course for the Italian Police Forces !En Marcha! Handbook of Drugs in Intensive Care Black Belt Karate Rogers' Textbook of Pediatric Intensive Care Atlas of Intensive Care Quantitative Eeg Management-intensive Grazing Law and Ethics in Intensive Care Manual of Neonatal Surgical Intensive Care The Intensive Interaction Handbook Designing Data-Intensive Applications Intensive Care Seven Signs of Life Intensive Parenting Intensive Care Radiology for Anaesthesia and Intensive Care Implementing Intensive Interaction in Schools Applied Anatomy for Anaesthesia and Intensive Care Intensive Bulgarian Intensive Cropping Intensive Probation Supervision Psychiatric Intensive Care Eggs and the Intensive World Anaesthesia, Pain, Intensive Care and Emergency Medicine — A.P.I.C.E. Data-Intensive Computing in Smart Microgrids Annual Update in Intensive Care and Emergency Medicine 2022 Organisation and Management of Intensive Care Clinical Intensive Care and Acute Medicine Applied Physiology in Intensive Care Medicine 1 Core Curriculum for Neonatal Intensive Care Nursing E-Book

Applied Anatomy for Anaesthesia and Intensive Care is an invaluable tool for trainee and practised anaesthetists and intensive care physicians seeking to learn, revise and develop their anatomical knowledge and procedural skills. Concise textual descriptions of anatomy are integrated with descriptions of procedures that are frequently performed in anaesthesia and intensive care, such as nerve blocks, focussed echo, lung ultrasound, vascular access procedures, front of neck airway access and chest drainage. The text is supported by over 200 high-quality, colour, anatomical illustrations, which are correlated with ultrasound, fibre optic and radiological images, allowing the reader to easily interpret nerve block sonoanatomy, airway fibre optic images and important features on CT and MRI scans. Useful mnemonics and easily reproducible sketch diagrams make this an essential resource for anyone studying towards postgraduate examinations in anaesthesia and intensive care medicine. An insightful, tender and inspiring memoir that explores the reality of life on the NHS front line. 'Brilliant, compelling... A hugely life-affirming book' Mail on Sunday Grief. Anger. Joy. Fear. Distraction. Disgust. Hope. All emotions we expect to encounter over our lifetime. But what if this was every day? And what if your ability to manage them was the difference between life and death? For Aoife Abbey, a doctor in intensive care, these experiences are part of the job - from grief when you make a potentially fatal mistake to joy when the ward unexpectedly breaks into song. Seven Signs of Life is Abbey's extraordinary account of what it means to be alive and how it feels to care for a living. 'Sensitive, honest and, yes, brave... Compulsive reading' Nigella Lawson 'Heartfelt, honest, illuminating and wise' Julia Samuel, author of This Too Shall Pass "This is an innovative course that has been very well received by reviewers. An attractive blend of functional, grammatical material, and a choice of pertinent topics that will interest a target audience." - - Provided by publisher. Published in the year 1985, Intensive Family Therapy is a valuable contribution to the field of Family Therapy. This new edition provides an accessible account of the essentials of intensive care medicine. The core of the book focuses on areas common to all critically ill patients including fluid therapy, sedation, shock, infection and other central topics. This key understanding of basic pathophysiological principles provides an excellent launch pad for the section on individual disease entities encompassing haematology, gastroenterology, nephrology, endocrinology, the respiratory system, cardiovascular pathology, poisoning and neurology. Economic and ethical issues are also covered, and the text is supported by numerous problem-oriented guidelines to help the care provider tackle real-life practical problems as encountered in the ICU. In the same spirit, wherever possible, the authors provide precise and meaningful advice, rather than bland generalisations. This new edition reflects the excitement, challenges and uniqueness of intensive care medicine, for the benefit of all residents, trainees, nursing staff and paramedics attached to the ICU. The Annual Update compiles reviews of the most recent developments in clinical

intensive care and emergency medicine research and practice in one comprehensive book. The chapters are written by well recognized experts in these fields. The book is addressed to everyone involved in intensive care and emergency medicine, anesthesia, surgery, internal medicine, and pediatrics. This concise, fully illustrated book covers key aspects of imaging that are of relevance to anaesthetists and intensivists, and examines all imaging modalities that are likely to be called upon (plain film, CT, MRI etc.). The book is written by a team of radiologists and anaesthetists, providing a dual perspective. Continuous update in critical care medicine is a real challenge due to the growing dimensions of its contents; these elements are the result of new research acquisitions, and of those clinical situations where the physician is able to intervene at a given moment, with the use of effective prevention techniques. They are also the result of new technologies able to define complex sub-clinical diagnostic aspects; lastly, they are the result of effective therapeutic techniques available, and of treatment strategies able to influence radically and positively the patient's clinical course. Critical care medicine is playing a key role in the most advanced environments, as it represents a cross-sectional field of action, involving several specialties, such as anesthesiology, general medicine, surgery, pediatrics. From the viewpoint of a health economist, the intensive care unit (leU) is a particularly fascinating phenomenon. It is the epitome of "high-tech" medicine and frequently portrayed as the place where life-saving miracles are routinely wrought. But the popular imagination is also caught up in the darker side, when agonizing decisions have to be made to avoid futile and inhuman continuation of expensive treatments. My analytical interests led me to approach these issues by asking what the evidence tells us about which leu activities are very beneficial in relationship to their costs and which are not. This quickly translates into a slightly different question, namely, which patients are most appropriately treated in an leu and which not. Unfortunately, it is very hard to answer these questions because it has proved very difficult to investigate these issues in the manner which is now regarded as the "gold standard:" namely by conducting randomized clinical trials or alternative courses of action. I think this is a pity, and I am not at all convinced that it would be unethical to do so in many cases, because there is wide variation in practice and genuine doubt as to which practices are best -the two conditions that need to be fulfilled before such a trial is justifiable. For nearly 40 years, Oh's Intensive Care Manual has been the quick reference of choice for ICU physicians at all levels of experience. The revised 8th edition maintains this tradition of excellence, providing fast access to practical information needed every day in today's intensive care unit. This bestselling manual covers all aspects of intensive care in sufficient detail for daily practice while keeping you up to date with the latest innovations in the field. Short, to-the-point chapters distill the essential information you need to know for safe, effective care of patients in the ICU. Each topic includes theoretical knowledge, practical methods of treating the condition described, a review of the available evidence, and common pitfalls in treatment and management. Ideal for daily quick reference as well as an efficient review for professional examinations in critical care medicine. A concise, multidisciplinary book that defines the emerging sub-specialty of psychiatric intensive care and sets out best practice. The Manual of Surgical Neonatal Intensive Care addresses the interdisciplinary area of perioperative management of newborns with surgical conditions. These babies generally spend less than a day in the operating room, but require weeks, or even months of complex pre and post operative care that spans medical and surgical areas of expertise. .... Intensive Care Unit Manual is a practical, hands-on, how-to manual that covers the full spectrum of conditions encountered in the ICU, guiding you step-by-step from your initial approach to the patient through diagnosis and treatment. Compact, affordable, and comprehensive, the ICU Manual puts all the critical care information you need right at your fingertips! Stay at the forefront of critical care with a practice-oriented, relevant, and well-illustrated account of the pathophysiology of critical disease, presented in a highly readable format. Gain valuable insight into the recognition, evaluation, and management of critical conditions such as respiratory, hemodynamic, and infectious diseases; management of ICU patients with special clinical conditions; cardiovascular, hematologic, and neurological disorders; poisoning and overdoses; trauma and burns; and much more!

Grasp the latest developments in critical care with extensive updates and revisions to several key chapters, as well as brand-new chapters on Alcohol Withdrawal Syndromes; Acute Heart Failure Syndromes; Noninvasive Ventilation; and more ICU conditions. Understand and apply the most important ICU practices, including management of acute respiratory failure, mechanical ventilation, invasive hemodynamic monitoring, and the care of patients with special needs, AIDS, end-stage renal disease, or end-stage liver disease. Get convenient access to the full text and image library online at Expert Consult, in addition to online-only text, figures, and tables from the Alcohol Withdrawal Syndromes and Acute Heart Failure Syndromes chapters. *Applied Physiology in Intensive Care Medicine* provides an excellent introduction to the management of acute illness for all clinical staff, and a solid foundation for those who choose to make ICU a fulfilling life-long career. *From the Foreword by Julian Bion, Professor of Intensive Care Medicine, University of Birmingham* Foundation year doctors are frequently rotated to Intensive Care Units (ICUs) and, like many of those new to intensive care, find that the standard texts on this challenging clinical environment are too comprehensive to provide an introduction or day-to-day reference. This simple bedside handbook fills that gap, providing a pragmatic guide to the basics of ICU, patient management and emergencies, as well as topical areas like organ donation, using social media for learning, and management of the acutely ill patient. New to this edition, the book contains chapters on Sepsis, ARDS, Refractory Hypoxia, post-ICU syndrome, Point of Care Ultrasound, and Stress/Burnout; often from world-renowned contributors. It also addresses consent and capacity, including the new DOLS guidance. The second edition is newly divided into 7 sections: Basics; The Multidisciplinary Team; Initial Assessment: The First Hour; Drugs; Equipment and Investigations; Airway and Respiratory Emergencies; Other Emergencies and Management. Each section is broken into short, easy-to-read topics, which have clearly outlined learning goals, summaries and emphasise the continuities between intensive care medicine and other forms of care. Foundation, Acute Common Stem and Anaesthesia junior doctors facing their initial attachment in Intensive Care will find this essential reading. Now even more accessible for non-career ICU doctors, it will also be an invaluable guide for ACCPs, outreach nurses, medical students, pharmacists, physiotherapists and allied health professionals. *Applied Physiology in Intensive Care Medicine* is a comprehensive revision resource for doctors preparing to take the Fellowship of the Faculty of Intensive Care Medicine (FFICM) and the European Diploma in Intensive Care Medicine (EDIC). Written by a team of practicing intensive care consultants with extensive experience running a successful FFCIM course, this book features over 100 practice questions organised into eight mock OSCE exams and is mapped to both the FFCIM and CoBaTrICE curricula. Reflecting the real exams, they are divided into stations on professionalism, data, resuscitation, and equipment, each of which are accompanied by further reading to ensure high-quality self-assessment. With hints and tips throughout to help candidates avoid common mistakes and misconceptions, this book is essential reading for any doctor preparing for the FFCIM or EDIC OSCE exams. This is the first comprehensive textbook teaching English-speakers to read, write, and speak contemporary Bulgarian. The text is designed to be adaptable for students of varying skill levels and can be taught at a gradual or intensive pace. It is also a much-needed reference grammar of Bulgarian, incorporating the latest research and theories on Bulgarian grammar in accessible layman's language. Volume 2 contains Lessons 16-30 and introduces more complex points of grammar and syntax than Volume 1. It also includes a cumulative Bulgarian-English glossary covering both volumes. Like many popular language textbooks, the dialogues in *Intensive Bulgarian* form a continuing dramatic narrative that gradually introduces students to both language and culture. Throughout the text, Bulgarian constructions and phrases are compared with English ones to clarify grammar and idioms. Lessons include: o dialogues and sample sentences o exercises and translation sentences o basic and supplemental grammar sections o reading selections o a glossary for the lesson o cultural notes. Together, Volumes 1 and 2 of *Intensive Bulgarian* provide all the materials necessary for teachers and students to learn lively, modern colloquial Bulgarian, to become familiar with Bulgarian cultural life, and to thoroughly understand Bulgarian grammar. Slavic scholars will also find in Volume 2 both a thorough presentation of the Bulgarian verb system, as traditionally conceived, and a new analysis of this system. The two previous editions of *Applied Physiology in Intensive Care Medicine*

proved extremely successful, and the book has now been revised and split into two volumes to enhance ease of use. This first volume comprises three elements -- "physiological notes," "technical notes," and seminal studies. The physiological notes concisely and clearly capture the essence of the physiological perspectives underpinning our understanding of disease and response to therapy. The technical notes then succinctly explain some of the basics of "how to" in this technology-centered field of critical care medicine. Finally, a number of seminal studies are provided on diverse topics in intensive care. *Applied Physiology in Intensive Care*, written by some of the most renowned experts in the field, is an up-to-date compendium of practical bedside knowledge that will serve the clinician as an invaluable reference source on key issues regularly confronted in everyday practice. A pocketbook of intensive care for junior doctors/residents working on the intensive care unit. Clear and straightforward advice on management of conditions found in ITU, including instruction on when to seek help from senior staff. Guides to common problems which cause difficulty for the trainee are conveniently indexed inside the front cover - eg diarrhoea, oliguria, problems during central venous access, problems with chest drains. Comprehensive coverage of the common conditions found in the ITU. Attractive, clear page design with danger icon to mark crucial clinical points where a trainee may make a mistake. New chapter on the transport of the critically ill patient. Significant updating of following areas - post mortem consent issues, sedative, analgesic and muscle relaxant drugs, Apache scoring, dysrhythmias/cardiac arrest, artificial ventilation, COAD, ARDS, subarachnoid haemorrhage. New section on antibiotic resistant infections. Cardioversion added to practical procedures section. Short further reading section at the end of chapters. A Spectator Book of the Year An Observer, New Statesman, Financial Times, Irish Times and Scotsman 2021 Non-Fiction Highlight 'Compassionate, beautifully written .. will only grow in importance and interest as the years go by' Jenny Colgan, Spectator 'Searing yet beautiful ... less a hot take that an astute manifesto for what matters most in life, as well as in medicine.' Rachel Clarke, author of *Breathtaking: Inside the NHS in a Time of Pandemic* and *Your Life in My Hands* 'Well written, often entertaining and occasionally deeply moving; an unmissable account of a year we will all try too hard to forget.' The Times 'Inspiring. I can't recommend it too strongly. You will learn a lot from it, and you will find much more that is encouraging.' Allan Massie, Scotsman *Intensive Care* is about how coronavirus emerged, spread across the world and changed all of our lives forever. But it's not, perhaps, the story you expect. Gavin Francis is a GP who works in both urban and rural communities, splitting his time between Edinburgh and the islands of Orkney. When the pandemic arrived in our society he saw how it affected every walk of life: the anxious teenager, the isolated care home resident, the struggling furloughed worker and homeless ex-prisoner, all united by their vulnerability in the face of a global disaster. And he saw how the true cost of the virus was measured not just in infections, or deaths, or ITU beds, but in the consequences of the measures taken against it. In this deeply personal account of eighteen months spent caring for a society in crisis, Francis will take you from rural village streets to local clinics and communal city stairways. And in telling this story, he reveals others: of loneliness and hope, illness and recovery, and of what we can achieve when we care for each other. This intensive foundation course in Italian is designed for students with no previous knowledge of the language. Accompanying audio material containing dialogues, listening exercises and pronunciation practice is available to purchase separately in CD format. These two audio CDs are designed to work alongside the accompanying book. Students using the Routledge Intensive Italian Course will practise the four key skills of language learning - reading, writing, speaking, and listening - and will acquire a thorough working knowledge of the structures of Italian. The Routledge Intensive Italian Course takes students from beginner to intermediate level in one year. *Intensive Parenting: Surviving the Emotional Journey through the NICU* focuses on the experiences, feelings, and relationship issues that families face when a baby is admitted to the Neonatal Intensive Care Unit (NICU). While other books explain a baby's medical conditions and treatments, this book explores the parents' experience in the NICU. Best-selling authors Deborah Davis, PhD, and Mara Tesler Stein, PsyD, carry forward themes from their earlier book, *Parenting Your Premature Baby and Child*, into this new volume, which features updated content for a broader audience, specifically any parent whose baby is in the NICU regardless of reason. By focusing solely on the NICU parenting experience, this book offers a concise and accessible guide. *Intensive Parenting* is also the best source

for health care practitioners who work with NICU families and relatives and friends who are trying understand this complex experience while offering parents comfort, support, and strength. Book jacket. Numerous treatment options are available to intensive care staff; this requires detailed knowledge of routes of administration and contra-indications to use in certain clinical conditions. Now in its fourth edition, this concise, practical handbook to drugs and prescribing for intensive care gives up-to-date advice on established drugs as well as providing advice on those recently approved. The book is divided into two sections: an A-Z guide to many of the drugs available, with concise information on each drug, including uses, limitations, administration directions and adverse effects. The second section contains topics relevant to the critically ill patients, including factors that may affect drug prescribing and management of medical emergencies. There is also a key data section showing weight conversions, BMI and corresponding dosage calculations, and an invaluable chart indicating drug compatibility for IV administration. This is an invaluable resource for doctors, nurses, and pharmacists caring for critically ill patients. First published 10 years ago, Manuel DeLanda's *Intensive Science and Virtual Philosophy* rapidly established itself as a landmark text in contemporary continental thought. DeLanda here draws on the realist philosophy of Gilles Deleuze to the domain of philosophy of science. As well as contemporary philosophical insights, the book also tackles new developments in geometry, complexity theory and chaos theory to bring new insights to our understanding of a scientific knowledge liberated from traditional ideas of essence. Explore new concepts for maximizing crop yields! *Intensive Cropping: Efficient Use of Water, Nutrients, and Tillage* is a compilation of current information on the interdependence of and synergies among water, nutrients, and energy in regard to increasing crop performance. This book explains the need for intensive cropping and explores the technologies and practices necessary for proper management of water, nutrients, and energy. With *Intensive Cropping* you will learn how to improve the quantity of the world's most important crops using methods that will minimize harm to the environment. This essential guide is a state-of-the-art account of the concepts and practices concerning the integrated use of water, nutrients, and energy in intensive cropping. *Intensive Cropping* combines basic and applied aspects of soil-water, nutrients, and energy management to help you optimize your crop yields and maximize the efficiency of intensively farmed regions. In *Intensive Cropping*, you will explore the need for extreme farming and related concerns and concepts, including: reducing runoff, deep seepage, and evaporation losses supplementing irrigation with surface and ground water understanding the process of water uptake and its effects on root dynamics and water use reducing leaching, erosion, and gaseous losses in your fields using combinations of organic manures, crop residues, chemical fertilizers, and biofertilizers for soil maintenance implementing conventional and emerging tillage systems, such as conservation tillage for improving soil quality examining case studies of contrasting edaphic requirements of rice-wheat systems *Intensive Cropping* brings you up-to-date on recent advances in the field, supported by relevant experimental observations on environmentally safe and effective ways to increase crop performance. By examining this new research on increasing crop production, you will be able to successfully increase crop yields in various climates and support the growing global demand for such resources. Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services, and learn from their architectures The only guide you need to read on the *Intensive Interaction* approach returns for its second edition, this time with its founder, Dave Hewett, as the Editor. The *Intensive Interaction*

approach has spread around the world and has been hugely influential in developing and teaching communication techniques with individuals who have severe learning difficulties and autism. This straightforward, no-nonsense handbook contains: - 2 new chapters: The *Intensive Interaction Outcomes Reporter*; and *Autism and Intensive & Intensive Interaction* and more able people; - photo stories demonstrating the approach in practice; - links to external videos presenting the photo stories in greater depth. More information on the *Intensive Interaction* community and approach can be found on dedicated social media pages, and at <https://www.intensiveinteraction.org/> Using vivid images and detailed explanations, Gerrish takes graziers step by step through the MiG system. He begins from the ground up with the soil, and advances through the management of pastures and animals. Written for those new to MiG grazing, Gerrish's insight and personal experience can help experienced graziers fine tune their grazing operations for added income. *!En Marcha!* is the only intensive course in Spanish for beginners. Systematic and comprehensive, it takes the student from beginner to solid intermediate level in one year. Carefully graded exercises and expert grammatical explanations are combined with lively activities and an attractive presentation to develop rapidly the four skills of listening, speaking, reading and writing. The material is organised in 8 units. Each unit has a theme around which the language content is developed and provides a variety of activities to practise what is being learnt, with clear instructions guiding the student and regular summaries of key points. The units also provide sections for self-study, which consolidate material learnt in class, as well as a full key to the exercises. The books contains a set of worksheets related to 15 role-plays, which allow students to deal in an effective manner with everyday situations such as buying food, clothes, going to a restaurant and seeing a doctor. Ensure you're referencing the most accurate information surrounding nursing practice in today's neonatal intensive care unit with AWHONN's *Core Curriculum for Maternal-Newborn Nursing*, 6th Edition. Developed by one of the most authoritative associations in neonatal intensive nursing care, AWHONN, this renowned guide provides in-depth coverage of the most common neonatal disorders and their management — focusing on the latest evidence-based practice for preterm infants, medications, and antepartum-intrapartum complications. Additionally, the concise outline format makes information easy to find as it highlights the essentials of each condition including the definition, etiology, pathophysiology, signs and symptoms, diagnostic tests, treatments, and outcomes. With timely content that sets the standard for neonatal nursing practice, this trusted reference is an excellent resource for practicing nurses working in any NICU worldwide. Content developed by AWHONN, one of the most authoritative associations in neonatal intensive care nursing, ensures the information is both accurate and relevant. Concise outline format provides access to important nursing considerations associated with the management of the most common conditions in the neonate. Full-scope coverage of neonatal nursing practice provides information on families, ethics, legal issues, research, case management, the transition to home, and more. Focus on evidence-based practice related to preterm infants, medications, and antepartum-intrapartum complications sets the standard for neonatal nursing practice. Strategies to promote inclusionary care better reflect today's nursing care today with a focus on family-centered care, comprehensive perinatal records, health care teams in the NICU, and infant care best practices. NEW! Expanded information on breastfeeding and acquired opioid dependency keep you informed with the latest best practices related to these two everchanging areas. NEW! Updated neonatal resuscitation guidelines ensures you follow the most up-to-date protocols and procedures in this critical skill area. NEW! Additional tables and boxes help you quickly find important information. This intensive foundation course in German is designed for students with no previous knowledge of the language. Offering an original and distinctive approach to language learning, the course presents German within its cultural context and encourages both practical language skills and enhanced communicative strategies. An answer key is supplied for all relevant exercises, and features of the course include: reading and listening texts as well as texts for closer analysis ♦ language focus ♦ sections on grammar, ♦ test your knowledge ♦ exercises and issues of style and social communication informative notes explaining cultural references lots of exercises, including revision of previously learnt vocabulary or language patterns. Using authentic language throughout, the *Routledge Intensive German Course* takes students from beginner to intermediate level in one year. Progress is carefully structured, starting with simple grammar and working towards more complex points with the acquisition

of a significant body of vocabulary, so ultimately enabling students to understand complex language patterns and express themselves fluently in a wide range of situations. To perfect listening and pronunciation skills, audio materials are presented on accompanying CDs, available to order separately, and guidance for tutors, as well as links to related sites, is also available at: [www.routledge.com/textbooks/0415253462](http://www.routledge.com/textbooks/0415253462)

First Published in 2003. By taking a detailed look at the implementation and management of Intensive Interaction, the authors of this book offer practical guidance on how to get the most from the approach in the school context. This book includes: guidance on managing priorities, training issues, power dynamics and coping with Ofsted; advice on setting up and running evaluation projects; clear links to the National Curriculum for SEN; case studies from special and mainstream school and a glossary of terms. This book is for practitioners, coordinators and managers in schools using Intensive Interaction with pupils who have severe and complex learning difficulties.

Pt. One: Critical care integration -- Sect. I: Introduction to the practice of pediatric critical care -- Sect. II: Professionalism, leadership, and systems-based practice -- Sect. III: Information management -- Sect. IV: Ethical and palliative concerns in the care of the critically ill -- Sect. V: Basic science concepts of pediatric critical care -- Pt. Two: Emergency care and acute management -- Sect. I: Initial stabilization -- Sect. II: Environmental crises -- Sect. III: Life-support technologies -- Pt. Three: Critical care organ systems -- Sect. I: Respiratory disease -- Sect. II: Neuromuscular disease -- Sect. III: Neurologic disease -- Sect. IV: Cardiovascular disease -- Sect. V: Immunologic diseases -- Sect. VI: Infectious diseases -- Sect. VII: Nutritional and gastrointestinal disorders -- Sect. VIII: Renal, endocrine, and metabolic disorders -- Sect. IX: Oncologic and hematologic disorders. The practice of intensive care medicine raises multiple legal and ethical issues on a daily basis, making it increasingly difficult to know who to admit and when, at what stage invasive management should be withdrawn, and who, importantly, should decide? These profound dilemmas, already complicated in a setting of scarce resources, mandate an understanding of law and ethics for those working in intensive care medicine. Clinically focused, this book explains the relevance of landmark rulings to aid your day-to-day decision-making. A spectrum of ethical and legal controversies in critical care are addressed to demonstrate how law and ethics affects the care available to patients and vice versa. Discussion of conflict resolution advises the options open to you when agreement on treatment decisions or withdrawal cannot be reached. The literature and variations surrounding Do Not Attempt Resuscitation decisions are outlined to help you navigate this complex area. This edition also provides an up-to-date analysis of issues such as futility and depreciation of liberty. Featuring contributions from leading legal and medical experts, this important reference should be read by every critical care professional. Microgrids have recently emerged as the building block of a smart grid, combining distributed renewable energy sources, energy storage devices, and load management in order to improve power system reliability, enhance sustainable development, and reduce carbon emissions. At the same time, rapid advancements in sensor and metering technologies, wireless and network communication, as well as cloud and fog computing are leading to the collection and accumulation of large amounts of data (e.g., device status data, energy generation data, consumption data). The application of big data analysis techniques (e.g., forecasting, classification, clustering) on such data can optimize the power generation and operation in real time by accurately predicting electricity demands, discovering electricity consumption patterns, and developing dynamic pricing mechanisms. An efficient and intelligent analysis of the data will enable smart microgrids to detect and recover from failures quickly, respond to electricity demand swiftly, supply more reliable and economical energy, and enable customers to have more control over their energy use. Overall, data-intensive analytics can provide effective and efficient decision support for all of the producers, operators, customers, and regulators in smart microgrids, in order to achieve holistic smart energy management, including energy generation, transmission, distribution, and demand-side management. This book contains an assortment of relevant novel research contributions that provide real-world applications of data-intensive analytics in smart grids and contribute to the dissemination of new ideas in this area. In Black Belt Karate, Hirokazu Kanazawa, the most respected figure in the karate world, offers a systematic approach to basic karate, and provides an intensive training course. Karate is a martial art that can be practiced by

anyone, regardless of age or gender, and can be undertaken at any time during a person's life. The training system employed in karate comprises three main areas: kihon (basics), kumite (sparring), and kata (forms). Using meticulously detailed explanations and illustrative photos, Kanazawa provides readers with an intensive self-study training course designed to be accessible to beginners, as well as to those already at an intermediate level. If practiced continuously and diligently over the course of a year, a practitioner will be able to attain black-belt-level proficiency. Praise for Black Belt Karate: "By following each and every page of this book as if receiving instruction directly from Mr. Kanazawa, I believe that over time, with careful practice, gaining proficiency is all but guaranteed. For anyone setting out to master karate-do, you hold in your hands a fine book indeed."—The late Masatoshi Nakayama, former chief instructor of the Japan Karate Association and author of Kodansha's Best Karate series

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