

Hyponatremia

Hypervolemic Hypernatremia

- ✓ Cushing Syndrome
- ✓ Primary aldosteronism
- ✓ Salt Water Intake
- ✓ Iatrogenic
 - hypertonic sodium bicarbonate
 - or hypertonic saline admin.

Normovolemic Hypernatremia

- ✓ Diabetes Insipidus
(central, gestational, & nephro-
genic)
- ✓ Impaired medullary hypertonicity

Renal hypovolemic hypernatremia

- ✓ Solute diuresis
 - Diabetic ketoacidosis
 - Nonketotic hyperosmolar coma
 - Osmotic diuretics
- ✓ Loop diuretics
- ✓ Postobstructive diuresis

Extrarenal hypovolemic hypernatremia

- ✓ Vomiting
- ✓ Osmotic diarrhea
- ✓ GI fistulas
- ✓ Sweating
- ✓ Burn
- ✓ Impaired thirst (ex: coma)

Does Losartan Cause Hyponatremia

**Hemanshu Prabhakar, Harsh
Sapra, Vasudha Singhal, Kapil G. Zirpe**



Does Losartan Cause Hyponatremia

Principles and Practice of Neurocritical Care Hemanshu Prabhakar, Harsh Sapra, Vasudha Singhal, Kapil G. Zirpe, 2024

Zusammenfassung This official textbook of the Society of Neurocritical Care SNCC comprises a comprehensive review of all possible neurologic conditions that one may encounter in the practice of neuro intensive care It covers various topics from the history and origin of neuro intensive care to psychological and nursing care Neurocritical care is the intensive care management of patients with life threatening neurological and neurosurgical illnesses such as massive stroke bleeding in or around the brain subarachnoid hemorrhage intracerebral hemorrhage subdural hemorrhage intraventricular hemorrhage brain tumors brain trauma status epilepticus nerve and muscle diseases myasthenia gravis Guillain Barre Syndrome spinal cord disorders and the cardiopulmonary complications of brain injury Neurocritical care units specialize in managing the unique needs of such critically ill patients The textbook is divided into many sections Chapters discuss issues related to palliative care and describe some of the commonly performed procedures in the neuro intensive care unit as well It provides a straightforward and systematic approach to various clinical problems encountered during intensive care management of neurologic patients It includes a separate section on special considerations in neurocritical care The book includes ample figures flowcharts and algorithms The textbook is a valuable resource for residents fellows and trainees in neuroanesthesia neurointensive care critical care and anesthesia It serves as a quick guide to all intensivists managing neurosurgical patients It is also helpful for general intensivists who occasionally manages neurologic patients

Lewis's Medical-Surgical Nursing E-Book Mariann M. Harding, Jeffrey Kwong, Debra Hagler, Courtney Reinisch, 2022-07-02 American Journal of Nursing AJN Book of the Year Awards 1st Place in Medical Surgical Nursing 2023 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Medical Surgical Gain the knowledge and skills you need to succeed in medical surgical nursing with this leading textbook Lewis's Medical Surgical Nursing 12th Edition uses a conversational writing style a focus on nursing concepts and clinical trends evidence based content and basic pathophysiology review to provide the solid foundation needed in a rapidly changing healthcare environment Comprehensive chapters cover topics including nursing management and collaboration health promotion acute interventions and ambulatory care Summary tables and boxes make it easy to find essential information and a building block approach makes even the most complex concepts simple to grasp In addition to three new chapters this edition includes a stronger focus on the nursing process clinical judgment and preparation for the Next Generation NCLEX Examination

Side Effects of Drugs Annual, 2018-10-31 Side Effects of Drugs Annual A Worldwide Yearly Survey of New Data in Adverse Drug Reactions Volume 40 first published in 1977 and continually published as a yearly update to the voluminous encyclopedia Meyler's Side Effects of Drugs presents clinicians and medical investigators with a reliable and critical survey of new data and trends in the area of adverse drug reactions and interactions with an international team of specialists contributing each year Topics covered in this release include Central Nervous System Stimulants and Drugs that Suppress Appetite Antidepressant drugs Lithium Drugs of abuse Hypnotics and sedatives Antipsychotic Drugs and much more Provides a critical yearly survey of the new data and trends regarding the side effects of drugs Authored and reviewed by worldwide pioneers in the clinical and practice sciences Presents an essential clinical on the side effects of drugs for practitioners and healthcare professionals alike

Brenner and Rector's The Kidney E-Book Maarten W. Taal, Glenn M. Chertow, Philip A. Marsden, Karl Skorecki, Alan S. L. Yu, Barry M. Brenner, 2011-11-01 Overcome the toughest clinical challenges in nephrology with the new 9th edition of Brenner Rector's The Kidney A brand new editorial team of Drs Maarten W Taal Glenn M Chertow Philip A Marsden Karl Skorecki Alan S L Yu and Barry M Brenner together with a diverse list of international contributors bring you the latest knowledge and best practices on every front in nephrology worldwide Brand new sections on Global Considerations in Nephrology and Pediatric Nephrology as well as new chapters on recent clinical trials cardiovascular and renal risk prediction in chronic kidney disease identification of genetic causes of kidney disease and many others keep you at the forefront of this rapidly growing ever changing specialty Brenner Rector remains the go to resource for practicing and training nephrologists and internists who wish to master basic science pathophysiology and clinical best practices Broaden your knowledge base with expert dependable comprehensive answers for every stage of your career from the most comprehensive definitive clinical reference in the field Prepare for certification or recertification with a review of the basic science that underpins clinical nephrology as well as a comprehensive selection of the most important bibliographical sources in nephrology Visually grasp and better understand critical information with the aid of over 700 full color high quality photographs as well as carefully chosen figures algorithms and tables to illustrate essential concepts nuances of clinical presentation and technique and decision making Get internationally diverse trusted guidance and perspectives from a team of well respected global contributors all of whom are at the top and the cutting edge of your field A new editorial team headed by Dr Taal and hand picked by Dr Brenner ensures the ongoing adherence to previous standards of excellence Access information quickly thanks to a new reorganized format and supplemental figures tables additional references and expanded discussions Keep current with the rapid development of care and research worldwide A new section Global Considerations focuses on regions outside Europe and North America Leading experts from Latin America Africa Near and Middle East Indian Subcontinent Far East Oceania and Australia present their expert insights into specific conditions as well as progress and challenges in the development of the specialty Improve therapy and outcomes for children with renal disease New to this edition Pediatric Nephrology addresses renal pathologies that usually present in childhood and covers topics such as Maturation of Kidney Structure and Function Fluid Electrolyte and Acid Base Disorders in Children Diseases of the Kidney and Urinary Tract in Children Dialysis in Children and Kidney Transplantation in Children Stay up to date with all the latest clinical information including recent clinical trials genetic causes of kidney disease and cardiovascular and renal risk prediction in chronic kidney disease

Hypertension Secrets E-Book Edgar V. Lerma, James M. Luther, Swapnil Hiremath, 2022-01-20 For more than 30 years the highly regarded Secrets Series has provided students and practitioners in all areas of health care with concise focused and engaging resources for quick reference and exam review Hypertension Secrets 2nd Edition offers practical up to date coverage of the full range of essential topics in this dynamic field This highly regarded resource features the Secrets popular question and answer format that also includes lists tables pearls memory aids and an easy to read style making inquiry reference and review quick easy and enjoyable The proven Secrets Series format gives you the most return for your time succinct easy to read engaging and highly effective Covers the full range of pathophysiology natural history and diagnosis and management of hypertension for in training or practicing professionals Fully revised and updated including protocols and guidelines that are continuously evolving and that increasingly dictate best practices Includes chapters on obstructive sleep apnea drug or alcohol induced hypertension hypertension and diabetes the obese individual African Americans the elderly thyroid disorders and pregnancy and the role of device therapy Top 100 Secrets and Key Points boxes provide a fast overview of the secrets you must know for success in practice and on exams Bulleted lists mnemonics practical tips from global leaders in the field all providing a concise overview of important board relevant content Portable size makes it easy to carry with you for quick reference or review anywhere anytime

Meyler's Side Effects of Analgesics and Anti-inflammatory Drugs Jeffrey K. Aronson, 2009-12-22 Elsevier now offers a series of derivative works based on the acclaimed Meyler's Side Effect of Drugs 15th Edition These individual volumes are grouped by specialty to benefit the practicing biomedical researcher and or clinician Opioids and analgesics are members of a diverse group of drugs used to relieve pain They are frequently used in combination with prescription and nonprescription pain relievers and misuse is prevalent Pain medicine specialists and physicians or surgeons will find this volume useful in prescribing the appropriate drugs for pain therapy and for preventing misuse of the medication The only drug guide that includes clinical case studies and expert analysis UNIQUE Features not only analgesics and anti inflammatory drugs but also all other drugs that act in an analgesic or anti inflammatory manner Most complete cross referencing of drug drug interactions available Latest content from the most highly regarded compilation of drug side effects Side Effects of Drugs Annual serial

Chronic Renal Disease Paul L. Kimmel, Mark E. Rosenberg, 2019-08-28 Chronic Renal Disease Second Edition comprehensively investigates the physiology pathophysiology treatment and management of chronic kidney disease CKD This translational reference takes an in depth look at CKD with no coverage of dialysis or transplantation Chapters are devoted to the scientific investigation of chronic kidney disease the most common problems faced by nephrologists in the management of chronic kidney disease specific illnesses in the CKD framework and how the management of CKD in a polycystic kidney disease patient differs from other CKD patients This award winning reference features a series of case studies covering both clinical aspects and pathophysiology Questions are open ended progressively more difficult and repetitive across different patient clinical problems and different chapters The cases and questions included will be useful for medical students residency board reviews and clinician teaching or conference preparation Includes case studies and questions which can be used as a teaching tool for medical students and resident Provides coverage of classification and measurement epidemiology pathophysiology complications of CKD fluid electrolyte disorders in CKD CKD and systemic illnesses clinical considerations therapeutic considerations and special considerations

Netter's Integrated Review of Medicine, E-Book Bryan Leppert, Christopher R Kelly, 2020-03-11 Netter's Integrated Review of Medicine Pathogenesis to Treatment provides concise visual overviews of the basic science and mechanisms of disease most relevant to diagnosis and treatment This integrated approach to underlying principles is your helpful companion on wards providing an understanding of why best practices evidence and guidelines make sense in the context of clinical decision making Short to the point chapters focus on common clinical situations and bridge the gap between basic sciences and the clinical thought process Reviews foundational science in the context of frequently encountered point of care situations offering an excellent review Presents 400 full color Netter images alongside diagnostic images providing a memorable highly visual approach Offers readable practical content organized by clinical topic covering the basic sciences that are most relevant to each disease or condition Provides readers with a detailed logically organized framework for approaching patient care the first part focuses on evaluating a new patient moving from history and physical exam findings to integration of objective data used to formulate a diagnosis the second part proceeds from this diagnosis to review its implications further evaluation and treatment

LANGE Q&A Physician Assistant Examination, Seventh Edition Rachel Carlson, Albert F. Simon, Bob McMullen, 2015-12-06 The most complete question and answer review for the PANCE and PANRE now fully revised and updated Lange Q A Physician Assistant Examination is filled with over 1 300 Q As that help you gear up for the PANCE and PANRE All questions appear in the style you will see on the actual exam and are accompanied by a detailed answer explanation and references In addition each question in this skill sharpening guide is conveniently organized by organ system or specialty area to help you quickly zero in on areas of strength and weakness A valuable opening chapter on test taking skills and techniques provides score boosting hints on how to best prepare for taking the exam Also included with the book is access to one complete online practice test that simulates the test taking experience The content of Lange Q A Physician Assistant Examination is reviewed by a team of PA students for accuracy and relevancy and is organized by organ system and specialty areas of practice The seventh edition of this first rate test prep tool is thoroughly revised with 40% new Q As The book is also redesigned in an eye catching 2 color layout that enhances readability and review of the material Taken together Lange Q A Physician Assistant Examination has everything you need to ace the PANCE and PANRE More than 1 300 multiple choice questions with detailed answer explanations and references you will encounter on the national certification and recertification exams Includes 40% new Q As 25 additional illustrations and images and full color dermatology images Provides authoritative coverage of internal medicine and surgery subspecialties Companion online practice test for the most thorough preparation possible

Potter and Perry's Canadian Fundamentals of Nursing - E-Book Barbara J. Astle, Wendy Duggleby, Patricia A. Potter, Anne G. Perry, Patricia A. Stockert, Amy Hall, 2023-02-15 Get the solid foundation you need to practise nursing in Canada Potter Perry's Canadian Fundamentals of Nursing 7th Edition covers the nursing concepts knowledge research and skills that are essential to professional nursing practice in Canada The text's full colour easy to use approach addresses the entire scope of nursing care reflecting Canadian standards culture and the latest in evidence informed care New to this edition are real life case studies and a new chapter on practical nursing in Canada Based on Potter Perry's respected Fundamentals text and adapted and edited by a team of Canadian nursing experts led by Barbara J Astle and Wendy Duggleby this book ensures that you understand Canada's health care system and health care issues as well as national nursing practice guidelines More than 50 nursing skills are presented in a clear two column format that includes steps and rationales to help you learn how and why each skill is performed The five step nursing process provides a consistent framework for care and is demonstrated in more than 20 care plans Nursing care plans help you understand the relationship between assessment findings and nursing diagnoses the identification of goals and outcomes the selection of interventions and the process for evaluating care Planning sections help nurses plan and prioritize care by emphasizing Goals and Outcomes Setting Priorities and Teamwork and Collaboration More than 20 concept maps show care planning for clients with multiple nursing diagnoses UNIQUE Critical Thinking Model in each clinical chapter shows you how to apply the nursing process and critical thinking to provide the best care for patients UNIQUE Critical Thinking Exercises help you to apply essential content Coverage of interprofessional collaboration includes a focus on patient centered care Indigenous peoples health referencing the Truth and Reconciliation Commission TRC Report the CNA Code of Ethics and Medical Assistance in Dying MAID legislation Evidence Informed Practice boxes provide examples of recent state of the science guidelines for nursing practice Research Highlight boxes provide abstracts of current nursing research studies and explain the implications for daily practice Patient Teaching boxes highlight what and how to teach patients and how to evaluate learning Learning objectives key concepts and key terms in each chapter summarize important content for more efficient review and study Online glossary provides quick access to definitions for all key terms

Meyler's Side Effects of Drugs Jeffrey K. Aronson, 2015-10-15 Meyler's Side Effects of Drugs The International Encyclopedia of Adverse Drug Reactions and Interactions Sixteenth Edition Seven Volume Set builds on the success of the 15 previous editions providing an extensively reorganized and expanded resource that now comprises more than 1 500 individual drug articles with the most complete coverage of adverse reactions and interactions found anywhere Each article contains detailed and authoritative information about the adverse effects of each drug with comprehensive references to the primary literature making this a must have reference work for any academic or medical library pharmacologist regulatory organization hospital dispensary or pharmaceutical company The online version of the book provides an unparalleled depth of coverage and functionality by offering convenient desktop access and enhanced features such as increased searchability extensive internal cross linking and fully downloadable and printable full text HTML or PDF articles Enhanced encyclopedic format with drug monographs now organized alphabetically Completely expanded coverage of each drug with more than 1 500 drug articles and information on adverse reactions and interactions Clearer systematic organization of information for easier reading including case histories to provide perspective on each listing Extensive bibliography with over 40 000 references A must have reference work for any academic or medical library pharmacologist regulatory organization hospital dispensary or pharmaceutical company

Side Effects of Drugs Annual Sidhartha D. Ray, 2021-11-04 Side Effects of Drugs Annual A Worldwide Yearly Survey of New Data in Adverse Drug Reactions Volume 43 first published in 1977 and continually published as a yearly update to the voluminous encyclopedia Meyler's Side Effects of Drugs presents clinicians and medical investigators with a critical survey of new data and trends in adverse drug reactions and interactions Topics covered in this new release include Central Nervous System Stimulants and Drugs that Suppress Appetite Antidepressants Lithium Drugs of Abuse Hypnotics and Sedatives Antipsychotic Drugs Antiepileptics Opioid Analgesics and Narcotic Antagonists Anti Inflammatory and Antipyretic Analgesics and Drugs Used in Gout and much more Provides a critical yearly survey of the new data and trends regarding the side effects of drugs Authored and reviewed by worldwide pioneers in the clinical and practice sciences Presents an essential clinical guide on the side effects of drugs for practitioners and healthcare professionals alike

LANGE Q&A Physician Assistant Examination, Eighth Edition Rachel Carlson, Bob McMullen, Danielle Kempton, Ian McLeod, 2022-01-14 The most comprehensive review available for the PANCE and PANRE fully revised and updated with all new professional practice content More than 1 300 Q As Help You Achieve Your Highest Score Possible on the PANCE AND PANRE Exams 1 300 multiple choice questions supplement coursework and help you prepare for the certification exams Each question is accompanied by a detailed referenced answer Organized by body system to help you pinpoint your areas of strength and weakness High yield chapter on test taking skills and techniques plus score boosting hints Includes 40% new Q As with coverage of the latest treatment and diagnostic tests New Professional practice chapter and expanded color page supplements for images and ECGs Thorough review of basic science and clinical science concepts Topics include Cardiovascular Dermatology Endocrinology EENT Gastroenterology Genitourinary Hematology Oncology Infectious Disease Musculoskeletal Nephrology Neurology Psychiatry Pulmonology Reproductive Medicine

Pharmacotherapeutics for Advanced Practice Virginia Poole Arcangelo, Andrew M. Peterson, 2006 This advanced pharmacotherapeutics text for nurse practitioners and physician assistants offers guidelines on prescribing drugs for over 50 common diseases and disorders The book is organized by disorder rather than drug class and includes algorithms and case studies that illustrate critical thinking aspects of prescribing such as drug selection lifespan considerations therapeutic drug monitoring adverse reactions unexpected outcomes and when to change therapy This Second Edition has new chapters on oncologic disorders and complementary and alternative medicines Improved case studies reflect more realistic practice issues in decision making Additional areas addressed include food drug interactions dietary considerations and concerns regarding geriatric patients

Brenner and Stevens' Pharmacology E-Book George M. Brenner, Craig W. Stevens, 2017-09-28 Designed to help you learn and retain key information in pharmacology this foundational text takes you from course exams and the USMLE Step 1 right through to clinical practice Brenner and Stevens Pharmacology 5th Edition focuses on the essential principles you need to know in a concise yet comprehensive manner that's easy to understand Highly illustrated and formatted for quick reference it's your go to text for the must know aspects of pharmacology you'll need for clinical problem solving and decision making Teaches the fundamental aspects of pharmacology using full color illustrations detailed explanations and a consistent format to present classification of drugs for each system disease Features useful tables drug classifications boxes case studies and self assessments in each chapter to help you review and prepare for course exams and Step 1 Includes the latest pharmacologic mechanisms and applications with new and updated drug information throughout

Fluid, Electrolyte, and Acid-Base Disorders in Small Animal Practice Stephen P. DiBartola, 2011-06-22 The leading reference for the diagnosis and management of fluid electrolyte and acid base imbalances in small animals *Fluid Electrolyte and Acid Base Disorders in Small Animal Practice* 4th Edition provides cutting edge evidence based guidelines to enhance your care of dogs and cats Information is easy to find and easy to use with comprehensive coverage including fluid and electrolyte physiology and pathophysiology and their clinical applications as well as the newest advances in fluid therapy and a discussion of a new class of drugs called vaptans Lead author Stephen DiBartola is a well known speaker and the go to expert in this field and his team of contributors represents the most authoritative and respected clinicians and academicians in veterinary medicine Over 30 expert contributors represent the cream of the crop in small animal medicine ensuring that this edition provides the most authoritative and evidence based guidelines Scientific evidence based insights and advances integrate basic physiological principles into practice covering patient evaluation differential diagnosis normal and abnormal clinical features and laboratory test results approaches to therapy technical aspects of therapy patient monitoring assessing risk and prediction of outcomes for each disorder Hundreds of tables algorithms and schematic drawings demonstrate the best approaches to diagnosis and treatment highlighting the most important points in an easy access format Drug and dosage recommendations are included with treatment approaches in the Electrolyte Disorders section Clear formulas in the Fluid Therapy section make it easier to determine the state of dehydration fluid choice and administration rate and volume in both healthy and diseased patients Updated chapters cover the latest advances in fluid therapy in patient management helping you understand and manage a wide range of potentially life threatening metabolic disturbances Expanded Disorders of Sodium and Water chapter includes information on a new class of drugs called vaptans vasopressin receptor antagonists that may soon improve the ability to manage patients with chronic hyponatremia Hundreds of new references cover the most up to date advances in fluid therapy including renal failure and shock syndromes

All-in-One Nursing Care Planning Resource Pamela L. Swearingen, 2015-02-02 The only book featuring nursing care plans for all core clinical areas Swearingen's All In One Nursing Care Planning Resource 4th Edition provides 100 care plans with the nursing diagnoses and interventions you need to know to care for patients in all settings It includes care plans for medical surgical maternity OB pediatrics and psychiatric mental health so you can use just one book throughout your entire nursing curriculum This edition includes a new care plan addressing normal labor and birth a new full color design new QSEN safety icons new quick reference color tabs and updates reflecting the latest NANDA I nursing diagnoses and collaborative problems Edited by nursing expert Pamela L Swearingen this book is known for its clear approach easy to use format and straightforward rationales NANDA I nursing diagnoses are incorporated throughout the text to keep you current with NANDA I terminology and the latest diagnoses Color coded sections for medical surgical maternity pediatric and psychiatric mental health nursing care plans make it easier to find information quickly A consistent format for each care plan allows faster lookup of topics with headings for Overview Pathophysiology Health Care Setting Assessment Diagnostic Tests Nursing Diagnoses Desired Outcomes Interventions with Rationales and Patient Family Teaching and Discharge Planning Prioritized nursing diagnoses are listed in order of importance and physiologic patient needs A two column format for nursing assessments interventions and rationales makes it easier to scan information Detailed rationales for each nursing intervention help you to apply concepts to specific patient situations in clinical practice Outcome criteria with specific timelines help you to set realistic goals for nursing outcomes and provide quality cost effective care NEW Care plan for normal labor and birth addresses nursing care for the client experiencing normal labor and delivery UPDATED content is written by practicing clinicians and covers the latest clinical developments new pharmacologic treatments patient safety considerations and evidence based practice guidelines NEW full color design makes the text more user friendly and includes NEW color coded tabs and improved cross referencing and navigation aids for faster lookup of information NEW Leaf icon highlights coverage of complementary and alternative therapies including information on over the counter herbal and other therapies and how these can interact with conventional medications

The Canadian Journal of Cardiology ,2009

Cardiology E-Book Michael H. Crawford, John P. DiMarco, Walter J. Paulus, 2009-09-18 With your heavy case load you can't afford to waste time searching for answers Cardiology 3rd Edition by Drs Crawford DiMarco and Paulus offers you just the practical problem based guidance you need to quickly overcome any clinical challenge 8 color coded sections cover the 8 major clinical syndromes of cardiovascular disease each section a virtual mini textbook on its topic 40 new chapters keep you up to date with the latest advances in the field while more than 2 000 lavish high quality illustrations color photographs tables and ECGs capture clinical manifestations as they present in practice It's current actionable information that you can put to work immediately for your patients Offers a problem based approach that integrates basic science diagnostic investigations and therapeutic management in one place for each cardiovascular disease so you can quickly find all of the actionable knowledge you need without flipping from one section to another Features introductory bulleted highlights in each chapter that present the most pertinent information at a glance Presents abundant algorithms to expedite clinical decision making Includes more than 2 000 lavish high quality illustrations color photographs tables and ECGs that capture clinical manifestations as they present in practice and promote readability and retention Includes 40 new chapters including Inherited Arrhythmia Syndromes Implantable Cardioverter Defibrillators and Cardiac Resynchronization Therapy in CHD Management of the Cyanotic Patient with CHD Special Problems for the Cardiology Consultant Dealing with Bariatric Gastric Bypass and many more that equip you with all of the latest knowledge Presents Special Problem sections many new to this edition that provide practical advice on problems that can be difficult to treat

Textbook of Medicine KV Krishna Das, 2017-09-30 The new edition of this comprehensive two volume set has been fully revised to provide undergraduate students with the most recent information and developments in medicine Volume One begins with an introduction to general topics covering genetics immunology drug administration imaging and more The second part of Volume One and Volume Two cover diseases and disorders found in different body systems guiding students step by step through epidemiology signs and symptoms investigation and diagnosis and management and complications The book covers both theoretical and clinical aspects of medicine and includes study aids such as chapter summaries and key points boxes to assist learning This sixth edition is highly illustrated and features sections on new scientific equipment biological genetic and molecular studies and molecular tools used in both research and in clinical practice Key points Fully revised new edition of comprehensive two volume set Covers diseases and disorders in all body systems Includes chapter summaries and key points boxes to assist learning Previous edition 9788184483888 published in 2008

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