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essential cell biology provides a readily accessible introduction to the central concepts of cell biology and its lively clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology the text and figures are easy to follow accurate clear and engaging for the introductory student molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our

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the two volumes of this new edition of the handbook cover the basic biological medical physical and electrical engineering principles they also include experimental results concerning how electric and magnetic fields affect biological systems both as potential hazards to health and potential tools for medical treatment and scientific research they also include material on the relationship between the science and the regulatory processes concerning human exposure to the fields like its predecessors this edition is intended to be useful as a reference book but also for introducing the reader to bioelectromagnetics or some of its aspects features new topics include coverage of electromagnetic effects in the terahertz region effects on plants and explicitly applying feedback concepts to the analysis of biological electromagnetic effects expanded coverage of electromagnetic brain stimulation characterization and modeling of epithelial wounds and recent lab experiments on at all frequencies section on background for

setting standards and precautionary principle discussion of recent epidemiological laboratory and theoretical results including who iarc syntheses of epidemiological results on both high and low frequency fields iitri lab study of cancer in mice exposed to cell phone like radiation and other rf studies all chapters updated by internationally acknowledged experts in the field

focuses on the fundamental aspects of molecular structure and function by reviewing key features and along the way encapsulating them as a series of concise concepts users are encouraged to place the essential knowledge of molecular biology into broad contexts and develop both academic and personal meaning for this discipline

dna technology second edition is a survey of biotechnology written to enlighten readers about the breakthroughs made possible by the science and technologies associated with current dna research ed alcamo gives the educated layperson a survey of dna by presenting a brief history of genetics a clear outline of techniques that are in use and indications of breakthroughs in cloning and other dna advances appropriate for a wide range of courses for non biology majors including a dna for lawyers course or allied health and nursing courses after reading this book individuals will feel more confident in their ability to understand contemporary newspaper and magazines articles referring to dna technology and human genetics business people will make more confident decisions in their dealings with biotechnology issues lawyers and jurists will have a better appreciation of dna fingerprinting persons with genetic disease will have a clearer understanding of their afflictions and understand the bases for possible cures agriculturists will have insight to the genetic basis for gene altered plants and animals and the general public will better appreciate the nature and reasons for the human genome project now in progress

written through a collaboration of expert faculty and medical students from harvard medical school this innovative text delivers a straightforward and clear overview of the major principles agents and processes governing human physiology emphasis is on understanding the higher order processes in each organ system concepts in medical physiology avoids long lists of unprioritized information and undefined jargon by presenting fresh concept diagrams and figures alongside clear explanations of quantitative concepts it can function equally well as a primary resource or as a review eight major sections comprising a total of 36 chapters cover general principles muscle and bone blood and the immune system cardiovascular physiology pulmonary physiology renal physiology gastrointestinal physiology and endocrine physiology many useful features simplify mastery of difficult concepts

case studies for each major section present detailed cases with signs and symptoms history and laboratory data questions at the conclusion of each case reinforce important clinical concepts reviews of cell biology basic science and biochemistry refresh students on the foundations of physiological knowledge clinical application boxes draw the connection between physiology to practical issues students face and help with preparation for the usmle pathophysiology sections are featured in every chapter review questions with answers in each chapter aid in preparation for the examination integrative physiology inserts highlight how specific systems organs and tissues work together more than 350 illustrations aid with visual learning including original schematic diagrams photos and tables concept focused summaries conclude each chapter for more effective learning and review suggested readings in every chapter provide a valuable resource for further investigation in physiological and clinical ideas

a leading biologist offers a comprehensive and accessible history of invasive species science from its earliest antecedents through its current research foci and controversies from the arrival of the naval shipworm in the black sea in the first millennium bc to the escape of the burmese python in florida in 1992 humans have moved species to new locations deliberately or inadvertently for thousands of years agricultural and environmental impacts of some invasions were evident early although whether observers recognized that the cause was an introduced species is uncertain the history of invasion biology truly begins in the sixteenth through eighteenth centuries when explorers noticed european species on various distant islands and in north america in the nineteenth century biogeographers studying species distributions across the globe introduced the first native and non native species categorizations and prominent researchers like charles darwin began to describe the impacts of introduced species in the nineteenth and twentieth centuries as humans moved increasing numbers of species across the globe the advent of modern ecology deepened our understanding of the scope of the problem in ecological explosions invasive species expert daniel simberloff provides a thorough overview of the development of invasion science from early research including from the perspectives of leading scientists like aldo leopold to the field s future simberloff explores the work of pioneering ecologists like charles elton antecedents of what became today s invasion biology before discussing the field s true emergence in the 1980s its explosive methodological and theoretical expansion its integration with other disciplines and its increasing visibility not only within the biological literature but also in government policies across the world in the 1990s finally he investigates current controversies such as the debate over whether the entire science is xenophobic and asks how ecosystems might adapt to

a rapidly globalizing world and ever increasing numbers of introduced species including the joro spider lionfish spotted lanternfly common reed and asian carp

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