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this edition covers the embryology since the preparation of fertilizing cells in spermatogenesis and the menstrual cycle fertilization and implantation including the first

weeks of development placenta development basic principles of neonatal physiology and adaptation up to the basics of congenital anomalies and prenatal diagnosis in the same manner this text integrates the concepts of molecular induction in human embryology congenital anomalies and prenatal postnatal diagnosis thus easing the understanding of complex embryological processes for the medical students in their comprehension of the relation between molecules embryology processes organs and systems formation and physiology knowledge also valuable for obstetrics gynecology and pediatrics residents and specialist that frequently face patients with congenital anomalies found via in utero ultrasound or in extrauterine life creating the need of analyzing which processes failed and caused the anomalies during fetal development this edition of the book integrated human embryology contains more than 150 improved figures and about 50 new ones an extra chapter about prenatal diagnosis was also added this chapter includes updated cell free fetal dna concepts regarding the detection of chromosomal abnormalities therefore this edition achieves the integration of different processes of human development while using illustrative figures that ease embryology and its clinical application

the area of biologically inspired computing or biological computation involves the development of new biologically based techniques for solving difficult computational problems a unified overview of computer science ideas inspired by biology biological computation presents the most fundamental and significant concepts in this area in the book students discover that bacteria communicate that dna can be used for performing computations how evolution solves optimization problems that the way ants organize their nests can be applied to solve clustering problems and what the human immune system can teach us about protecting computer networks the authors discuss more biological examples such as these along with the computational techniques developed from these scenarios the text focuses on cellular automata evolutionary computation neural networks and molecular computation each chapter explores the biological background describes the computational techniques gives examples of applications discusses possible variants of the techniques and includes exercises and solutions the authors use the examples and exercises to illustrate key ideas and techniques clearly conveying the essence of the major computational approaches in the field this book brings students to the point where they can either produce a working implementation of the techniques or effectively use one of the many available implementations moreover the techniques discussed reflect fundamental principles that can be applied beyond bio inspired computing supplementary material is available on dr unger s website

case studies in immunology seventh edition is intended for medical students and undergraduate and graduate students in immunology it presents major topics of immunology through a selection of clinical cases that reinforce and extend the basic science each case history is preceded by essential scientific facts about the immunological mechanisms o

this book examines how humans evolved from the cosmos and prebiotic earth and what types of biological chemical and physical sciences drove this complex process the author presents his view of nature which attributes the rising complexity of life to the continual increasing of information content first in genes and then in brains

selected for doody's core titles 2024 in anesthesiology pain medicine balancing must know scientific knowledge with clinical applications cottrell and patel's neuroanesthesia 7th edition reflects the latest developments in neurosurgical anesthesia providing a comprehensive authoritative overview of this challenging field clinically oriented chapters offer key clinical points case presentations and discussions delivering the complete and authoritative guidance you need to ensure optimal perioperative care and safety for neurosurgical patients broad clearly organized coverage of all important aspects of neuroanesthesia enables you to find reliable answers to any clinical question integrates current scientific principles with the newest clinical applications including current clinical management guidelines for neurosurgical patients provides expert guidance on what to do under a variety of circumstances the logic behind why it should be done and tips for avoiding complications includes clear conceptual illustrations throughout along with neuroimaging clinical photos charts and graphs and clinical algorithms making complex concepts easier to understand at a glance covers the latest advancements in the field including cerebrospinal fluid hemodynamics and physiology minimally invasive techniques brain tissue oxygenation oximetry microdialysis neuroimaging and neurointerventional radiology traumatic brain injury pediatric neuroanesthesia and acute treatment of depression any additional digital ancillary content may publish up to 6 weeks following the publication date

ever since the international human genome project achieved its extraordinary goal of sequencing and mapping the entire human genome represented by approximately 3 billion base pairs with its far reaching implications for understanding the causes of human genetic disorders and their diagnosis progress in the field has not slowed down in the fifth edition of the bestselling color atlas of genetics readers will be rewarded with a complete and current overview of the field with an emphasis on the interface between fundamental principles and practical applications in medicine and the role of signaling pathways in causing diseases using the acclaimed flexibook format designed for easy visual learning and retention the atlas is invaluable for students clinicians and scientists interested in staying up to date in this fast evolving area new fully illustrated topics in the revised fifth edition of the atlas include an overview of disorders resulting from structural changes of the genome genomic disorders abnormal imprinting patterns examples of impaired signal pathways laminopathies fibrillinopathies cohesinopathies and others the crispr cas system genetic features of the aging processes disorders due to rearrangements of chromatin in the cell nucleus and others with almost 200 stunning color plates explained by concise texts on the opposite pages including tables presenting useful data a glossary of terms key references and online resources the atlas presents clear and accessible concepts it is an excellent refresher for investigators in any field of medicine or biology

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