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This book reevaluates the health risks of ionizing radiation in light of data that have become available since the 1980 report on

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this subject was published. The data include new, much more reliable dose estimates for the A-bomb survivors, the results of an additional 14 years of follow-up of the survivors for cancer mortality, recent results of follow-up studies of persons irradiated for medical

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purposes, and results of relevant experiments with laboratory animals and cultured cells. It analyzes the data in terms of risk estimates for specific organs in relation to dose and time after exposure, and compares radiation effects between Japanese and

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Western populations.

Barron's AP Biology is one of the most popular test preparation guides around and a "must-have" manual for success on the Biology AP Test. In this updated book, test takers will find: Two full-length exams that follow the content and

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First Published in 1998. Routledge

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is an imprint of Taylor & Francis, an informa company.

The biological background of genetics; Mendelian principles; Linkage and crossing over; Actions and interactions of genes in development of heritable characters; Influence of multiple

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genes in development; Biometry the statistics of genetics; Variations and germinal changes; Sex determination and sexual types; Twins and human heredity. This book presents all the publicly available questions from the PISA surveys. Some of these questions

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were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

The purpose of this manual is to provide an educational genetics resource for individuals, families, and health professionals in the

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New York - Mid-Atlantic region and increase awareness of specialty care in genetics. The manual begins with a basic introduction to genetics concepts, followed by a description of the different types and applications of genetic tests. It also provides

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information about diagnosis of genetic disease, family history, newborn screening, and genetic counseling. Resources are included to assist in patient care, patient and professional education, and identification of specialty genetics services within

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the New York - Mid-Atlantic region. At the end of each section, a list of references is provided for additional information. Appendices can be copied for reference and offered to patients. These take-home resources are critical to helping

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both providers and patients understand some of the basic concepts and applications of genetics and genomics.

Linus Pauling wrote a stellar series of over 800 scientific papers spanning an amazing range of fields, some of which he

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himself initiated. This book is a selection of the most important of his writings in the fields of quantum mechanics, chemical bonding (covalent, ionic, metallic, and hydrogen bonding), molecular rotation and entropy, protein structure, hemoglobin,

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molecular disease, molecular evolution, the antibody mechanism, the molecular basis of anesthesia, orthomolecular medicine, radiation chemistry/biology, and nuclear structure. Through these papers the reader gets a fresh, unfiltered

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view of the genius of Pauling's many contributions to chemistry, chemical physics, molecular biology, and molecular medicine.

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Explains how self-organizing

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systems, from crystals to human societies, share collective memories that influence their form and behavior • Includes new evidence and research in support of the theory of

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morphic resonance • Explores the major role that morphic resonance plays not just in animal instincts and cultural inheritance but also in the larger process of evolution • Shows that

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nature is not ruled by fixed laws but by habits and collective memories In this fully revised and updated edition of The Presence of the Past, Cambridge biologist Rupert Sheldrake

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lays out new evidence and research in support of his controversial theory of morphic resonance and explores its far-reaching implications in the fields of biology, chemistry, physics,

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psychology, and sociology. His theory proposes that all self-organizing systems, from crystals to human society, inherit a collective memory that influences their form and behavior.

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This collective memory works through morphic fields, which organize the bodies of plants and animals, coordinate the activities of brains, and underlie conscious mental

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activity. Sheldrake shows how all human beings draw upon and contribute to a collective human memory and that even our individual recollections depend on morphic resonance rather

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than physical storage in the brain. He explores the major role that morphic resonance plays not just in animal instincts and cultural inheritance, such as religion and ritual, but also in the

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larger process of evolution, which Sheldrake shows to be more an interplay of habit and creativity than a mere “survival of the fittest.” Offering a replacement for the outdated, mechanistic

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worldview that has dominated biology since the nineteenth century, Sheldrake's new understanding of life, matter, and mind shows that rather than being ruled by

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fixed laws, nature is essentially habitual. And because memory is inherent in nature, he explains, in order to survive successfully for generations to come, we will have to give up our old

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habits of thought and adopt new ones: habits that are better adapted to life in a world living in the presence of the past--as well as the presence of the future.

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PERFECT SCORE STEP 1 Set up your study plan with three customized study schedules STEP 2 Determine your readiness with an AP-style diagnostic exam STEP 3 Develop the strategies

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that will give you the edge on test day STEP 4 Review the terms and concepts you need to score high STEP 5 Build your confidence with full-length practice exams Tackle a tough subject in

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illustrations, figures, sidebars, helpful hints, and easy-to-read descriptions make information crystal clear. Each unique page spread provides an entire unit of understanding,

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breaking down complex concepts into easy-to-grasp sections for today's learner. The first broad survey of the role of genetics in public health, with emphasis on the new molecular genetics.

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Program discusses the Human Genome Project, the science behind it, and the ethical, legal and social issues raised by the project. Significant advances in our knowledge of genetics were

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made during the twentieth century but in the most recent decades, genetic research has dramatically increased its impact throughout society. Genetic issues are now playing a

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large role in health and public policy, and new knowledge in this field will continue to have significant implications for individuals and society. Written for the non-majors human genetics

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course, Human Genetics, 3E will increase the genetics knowledge of students who are learning about human genetics for the first time. This thorough revision of the best-selling Human

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This new edition will contribute to creating a genetically literate student population that understands basic biological research, understands elements of the personal and health

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implications of genetics, and participates effectively in public policy issues involving genetic information . Includes topical material on forensics, disease studies,

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and the human genome project to engage non-specialist students Full, 4-color illustration program enhances and reinforces key concepts and themes
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chapters includes interest boxes that focus on human health and disease, chapter-opening case studies, and concept statements to engage non-specialist readers

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recommended that greater scrutiny should be given to foods containing new compounds or unusual amounts of naturally occurring substances, regardless of the method used to create them. The

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book offers a framework to guide federal agencies in selecting the route of safety assessment. It identifies and recommends several pre- and post-market approaches to guide the assessment of unintended

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compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps.

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understanding the genetic and environmental causes of these differences. Genes, Culture, and Personality is an expansive account of the state of current knowledge about the causes of individual differences in

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personality and social attitudes. Based on almost two decades of empirical research, the authors have made a significant contribution to the debate on genetic and cultural inheritance in human behavior. The book

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should be required reading for psychologists, psychiatrists, sociobiologists, and geneticists. Medical and Health Genomics provides concise and evidence-based technical and practical information on the applied and

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of public and community health issues, and within a variety of global healthcare systems
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described in this book is explained within its conceptual framework to enhance understanding. The targeted approach covers the principles of molecular biology including the basic knowledge of nucleic

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acids, proteins, and genomes as well as the basic techniques and instrumentations that are often used in the field of molecular biology with detailed procedures and explanations. This book also covers the applications of the

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molecular biology and their application in the clinical diagnosis of diseases • Places protocols in context with practical applications

This book provides an overview of the rapidly developing

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integration and interdependence of quantitative genetics, genomics, bioinformatics and their application to plant breeding. Chapters have been developed from a symposium held in Baton Rouge, Louisiana,

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***Genetic testing and screening
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delivery requiring a working knowledge of core genetic principles, Medical Genetics is a true must-read for every clinician.

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***metallic, and hydrogen bonding),
molecular rotation and entropy,
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medicine, radiation chemistry?biology, and nuclear structure. Through these papers the reader gets a fresh, unfiltered view of the genius of Pauling's many contributions to chemistry, chemical physics, molecular

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argument of The Bell Curve. When published in 1981, The Mismeasure of Man was immediately hailed as a masterpiece, the ringing answer to those who would classify people, rank them according to

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their supposed genetic gifts and limits. And yet the idea of innate limits—of biology as destiny—dies hard, as witness the attention devoted to The Bell Curve, whose arguments are here so effectively anticipated

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and thoroughly undermined by Stephen Jay Gould. In this edition Dr. Gould has written a substantial new introduction telling how and why he wrote the book and tracing the subsequent history of the controversy on

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innateness right through The Bell Curve. Further, he has added five essays on questions of The Bell Curve in particular and on race, racism, and biological determinism in general. These additions

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strengthen the book's claim to be, as Leo J. Kamin of Princeton University has said, "a major contribution toward deflating pseudo-biological 'explanations' of our present social woes." The idea of The Fingerprint

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Sourcebook originated during a meeting in April 2002. Individuals representing the fingerprint, academic, and scientific communities met in Chicago, Illinois, for a day and a half to discuss the state of fingerprint

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identification with a view toward the challenges raised by Daubert issues. The meeting was a joint project between the International Association for Identification (IAI) and West Virginia University (WVU). One recommendation

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that came out of that meeting was a suggestion to create a sourcebook for friction ridge examiners, that is, a single source of researched information regarding the subject. This sourcebook would provide

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educational, training, and research information for the international scientific community.

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DIVThe distinguished educator and philosopher discusses his revolutionary vision of education, stressing growth, experience, and

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activity as factors that promote a democratic character in students and lead to the advancement of self and society. /div

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concise presentation of genetic factors in cardiovascular disease and their response to therapy consolidates knowledge of this high-interest and emerging

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this rapidly developing field.

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Step 4: Review the Knowledge Step 5: Build Your Confidence Topics include: Chemistry, Cells, Respiration, Photosynthesis, Cell Division, Heredity,

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**Molecular Genetics,
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Classification, Plants,
Human Physiology, Human
Reproduction, Behavioral
Ecology & Ethology, and
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Raising hopes for disease treatment and prevention, but also the specter of discrimination and "designer genes,"

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genetic testing is potentially one of the most socially explosive developments of our time. This book presents a current assessment of this rapidly evolving

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field, offering principles for actions and research and recommendations on key issues in genetic testing and screening. Advantages of early

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genetic knowledge are balanced with issues associated with such knowledge: availability of treatment, privacy and discrimination, personal decisionmaking,

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public health objectives, cost, and more. Among the important issues covered: Quality control in genetic testing. Appropriate roles for

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public agencies, private health practitioners, and laboratories. Value-neutral education and counseling for persons considering testing. Use of test results in

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complete detail with easy-to-follow, easy-to-grasp explanations. - The book's glossary allows for quicker, smarter searches of the information you need

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