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Anthony J.F. Griffiths

the principle objective of this book is to help undergraduate students in the analysis of genetic problems many students have a great deal of difficulty doing genetic analysis and the book will be useful regardless of which genetics text is being used most texts provide some kinds of problems and answers few if any however show the students how to actually solve the problem often the student has no idea how the answer was derived this work emphasizes solutions not just answers the strategy is to provide the student with the essential steps and the reasoning involved in conducting the analysis throughout the book an attempt is made to present a balanced account of genetics topics therefore center about mendelian cytogenetic molecular quantitative and population genetics with a few more specialized areas whenever possible the student is provided with the appropriate basic statistics necessary to make some of the analyses the book also builds on itself that is analytical methods learned in early parts of the book are subsequently revisited and used for later analyses a deliberate attempt is made to make complex concepts simple and sometimes to point out that apparently simple concepts are sometimes less so on further investigation any student taking a genetics course will find this book an invaluable aid to achieving a good understanding of genetic principles and practice

provides a rich case based account of the ethical issues arising in genetics for health professionals patients and their families

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the problem solvers are an exceptional series of books that are thorough unusually well organized and structured in such a way that they can be used with any text no other series of study and solution guides has come close to the problem solvers in usefulness quality and effectiveness educators consider the problem solvers the most effective series of study aids on the market students regard them as most helpful for their school work and studies with these books students do not merely memorize the subject matter they really get to understand it each problem solver is over 1 000 pages yet each saves hours of time in studying and finding solutions to problems these solutions are worked out in step by step detail thoroughly and clearly each book is fully indexed for locating specific problems rapidly thorough coverage is given to cell mechanics chromosomes mendelian genetics sex determination mutations and alleles bacterial and viral genetics biochemistry immunogenetics genetic engineering probability and statistics

the fourth edition of this classical reference book can once again be relied upon to present a cohesive and up to date exposition of all aspects of human and medical genetics human genetics has become one of the main basic sciences in medicine and molecular genetics is increasingly becoming a major part of this field this new edition integrates a wealth of new information mainly

describing the influence of the molecular revolution including the principles of epigenetic processes which together create the phenotype of a human being other revisions are an improved layout sub division into a larger number of chapters as well as two colour print throughout for ease of reference and many of the figures are now in full colour for graduates and those already working in medical genetics

based on the author s more than twenty years of teaching experience genetics a conceptual approach offers a fresh new way of introducing the major concepts and mechanics of genetics focusing students on the big picture without overwhelming them with detail

this new brief version of benjamin pierce s genetics a conceptual approach second edition responds to a growing trend of focusing the introductory course on transmission and population genetics and covering molecular genetics separately the book is comprised of following chapters an case studies from pierce s complete text 1 introduction to genetics 2 chromosomes and cellular reproduction 3 basic principles of heredity 4 sex determination and sex linked characteristics 5 extensions and modifications of basic principles 6 pedigree analysis and applications integrative case study phenylketonuria part i 7 linkage recombination and eukaryotic gene mapping 8 bacterial and viral genetic systems 9 chromosome variation integrative case study phenylketonuria part ii 22 quantitative genetics 23 population genetics and molecular evolution integrative case study phenylketonuria part iii

provides an introduction to genetic analysis this book covers contemporary genetics and helps students understand the essentials of genetics featuring various experiments teaching them how to analyze data and how to draw their own conclusions

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