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10th Edition

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mathematical approaches to molecular structural biology offers a comprehensive overview of the mathematical foundations behind the study of biomolecular structure initial chapters provide an introduction to the mathematics associated with the study of molecular structure such as vector spaces and matrices linear systems matrix decomposition vector calculus probability and statistics the book then moves on to more advanced areas of molecular structural biology based on the mathematical concepts discussed in earlier chapters here key methods such as x ray crystallography and cryo electron microscopy are explored in addition to biomolecular structure

dynamics within the context of mathematics and physics this book equips readers with an understanding of the fundamental principles behind structural biology providing researchers with a strong groundwork for further investigation in both this and related fields includes a detailed introduction to key mathematical principles and their application to molecular structural biology explores the mathematical underpinnings behind advanced techniques such as x ray crystallography and cryo electron microscopy features step by step protocols that illustrate mathematical and statistical principles for studying molecular structure and dynamics provides a basis for further investigation into the field of computational molecular biology includes figures and graphs throughout to visually demonstrate the concepts discussed

farhad ghassemi tari was born in tehran iran he currently resides in oxnard california the author completed his ph d program in operations research applied mathematical programming and graduated from texas a m university in 1980 right after his graduation he started teaching at sharif university of technology for thirty six years where he retired as an associate professor during this time he conducted research projects and taught several undergraduate and graduate courses mostly in mathematical programming such as linear programming integer and dynamic programming nonlinear programming sequencing and scheduling and quantitative method in managerial decision making tari has published more than eighty papers in scientific journals and has held conference proceedings from the research results his hobbies include reading books and listening to classical music he also likes cooking mathematics i and its complement volume intermediate mathematics ii systematically describe concepts and tools that are crucial to every college student who are willing to attain solid base for more advance mathematical topics they aim to give the reader a comprehensive view of mathematics its use and its role in computation these two books cooperatively may be different than other mathematics textbooks every chapter starts with a romantic poem researchers have discovered that contemplating poetic imagery and the multiple layers of meanings in poems activates specific areas of the brain that help us to interpret our everyday reality in these books every topic is assisted by several examples after presentation of concepts and tools each chapter is proceeded with different real life applications of the topics finally each chapter concludes with 60 multiple choice questions to attract deeper learning and understanding of the topics studied

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