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Nota di contenuto	MATHEMATICS OF BIOINFORMATICS; CONTENTS; PREFACE; ABOUT THE AUTHORS; 1: Bioinformatics and Mathematics; 2: Genetic Codes, Matrices, and Symmetrical Techniques; 3: Biological Sequences, Sequence Alignment, and Statistics; 4: Structures of DNA and Knot Theory; 5: Protein Structures, Geometry, and Topology; 6: Biological Networks and Graph Theory; 7: Biological Systems, Fractals, and Systems Biology; 8: Matrix Genetics, Hadamard Matrices, and Algebraic Biology; 9: Bioinformatics, Denotational Mathematics, and Cognitive Informatics; 10 Evolutionary Trends and Central Dogma of Informatics APPENDIX A: Bioinformatics Notation and Databases APPENDIX B: Bioinformatics and Genetics Time Line; APPENDIX C: Bioinformatics Glossary; INDEX
Sommario/riassunto	"Mathematics of Bioinformatics: Theory, Methods, and Applications provides a comprehensive format for connecting and integrating

information derived from mathematical methods and applying it to the understanding of biological sequences, structures, and networks. Each chapter is divided into a number of sections based on the bioinformatics topics and related mathematical theory and methods. Each topic of the section is comprised of the following three parts: an introduction to the biological problems in bioinformatics; a presentation of relevant topics of mathematical theory and methods to the bioinformatics problems introduced in the first part; an integrative overview that draws the connections and interfaces between bioinformatics problems/issues and mathematical theory/methods/applications"--
