DESCRIPTION

This essential guide to the knowledge and tools in the field includes everything from the basic concepts to modern methods, while also forming a bridge to bioinformatics.

The textbook offers a very clear and didactical structure, starting from the basics and the theory, before going on to provide an overview of the methods. Learning is now even easier thanks to exercises at the end of each section or chapter. Software tools are explained in detail, so that the students not only learn the necessary theoretical background, but also how to use the different software packages available. The wide range of applications is presented in the corresponding book Applied Chemoinformatics - Achievements and Future Opportunities (ISBN 9783527342013). For Master and PhD students in chemistry, biochemistry and computer science, as well as providing an excellent introduction for other newcomers to the field.

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NEW TO EDITION

This second edition is completely revised and rearranged in structure to have a very clear didactical approach. Approximately 30% completely new contents, including:

* exercises at the end of each section or chapter
* the latest developments in methods and applications
* a CD with step-by-step tutorials and answers to the exercises in the book

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