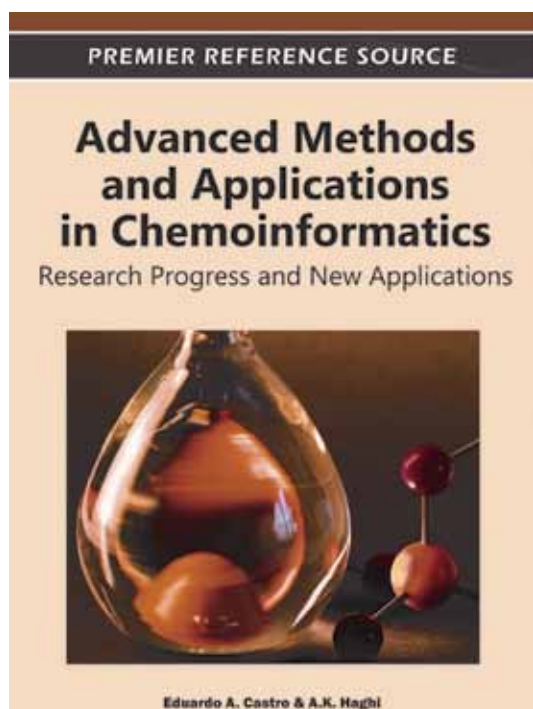


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Eduardo A. Castro (Research Institute of Theoretical and Applied Physical-Chemistry (INIFTA), Argentina) and A. K. Haghi (University of Guilan, Iran)

Chemoinformatics is a scientific area that endeavours to study and solve complex chemical problems using computational techniques and methods. The collection of topics in this book aims to reflect the diversity of recent advances in chemoinformatics with a broad perspective which may be useful for scientists as well as for graduate students and engineers. This book presents leading-edge research from around the world in this dynamic field.

Advanced Methods and Applications in Chemoinformatics: Research Methods and New Applications

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Eduardo A. Castro's career was launched by studying Physical Chemistry at the Faculty of Chemistry of the La Plata National University of La Plata, Buenos Aires, Argentina, during 1963-70. His diploma work to get his PhD Degree was on calculation of HMO and related semi empirical methods of beta-carotene for analyze chemical reactivity and electronic spectrum. Incidentally, his only available computational resource on that time was a diagonalization subroutine for symmetric matrices and his only disposable instruction book was Andrew Streitwieser's on Theoretical Organic Chemistry. From 1971-72 he performed his Ph.D. work at the Physics Department of the National La Plata University, working under supervision of Manuel Sorarrain. After that we find him as a research scientist at the Theoretical and Applied Research Institute located at La Plata National University where he founded the Group for Theoretical Chemistry in 1974. Then, he was appointed as a member of the Scientific Researcher Career in the Argentina National Research Council, and he continues up to the present time as a Superior Researcher.



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