



*Jiapu Zhang*

# **Practical Global Optimization Computing Methods in Molecular Modelling**

- for Atomic-resolution Structures of Amyloid Fibrils

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Problems, 2d, San Remo, Italy, 1968,1969      Computing Methods in Optimization Problems, 2: Papers Presented at a Conference Held at San Remo, Italy, September 9-13, 1968 International conference on computing methods in optimization problems, 2nd (san remo, 1968. z),      *Computational Methods for Optimizing Manufacturing Technology: Models and Techniques* Davim, J. Paulo,2012-02-29 This book contains the latest research developments in manufacturing technology and its optimization and demonstrates the fundamentals of new computational approaches and the range of their potential application Provided by publisher      **Computational Methods for Application in Industry 4.0** Nikolaos E. Karkalos,Angelos P. Markopoulos,J. Paulo Davim,2018-05-21 This book presents computational and statistical methods used by intelligent systems within the concept of Industry 4 0 The methods include among others evolution based and swarm intelligence based methods Each method is explained in its fundamental aspects while some notable bibliography is provided for further reading This book describes each methods principles and compares them It is intended for researchers who are new in computational and statistical methods but also to experienced users      Computational Methods for the Innovative Design of Electrical Devices Slawomir Wiak,Ewa Napieralska Juszcak,2010-10-29 Computational Methods for the Innovative Design of Electrical Devices is entirely focused on the optimal design of various classes of electrical devices Emerging new methods like e g those based on genetic algorithms are presented and applied in the design optimization of different devices and systems Accordingly the solution to field analysis problems is based on the use of finite element method and analytical methods as well An original aspect of the book is the broad spectrum of applications in the area of electrical engineering especially electrical machines This way traditional design criteria of conventional devices are revisited in a critical way and some innovative solutions are suggested In particular the optimization procedures developed are oriented to three main aspects shape design material properties identification machine optimal behaviour Topics covered include New parallel finite element solvers Response surface method Evolutionary computing Multiobjective optimization Swarm intelligence MEMS applications Identification of magnetic properties of anisotropic laminations Neural networks for non destructive testing Brushless DC motors transformers Permanent magnet disc motors magnetic separators Magnetic levitation systems  
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