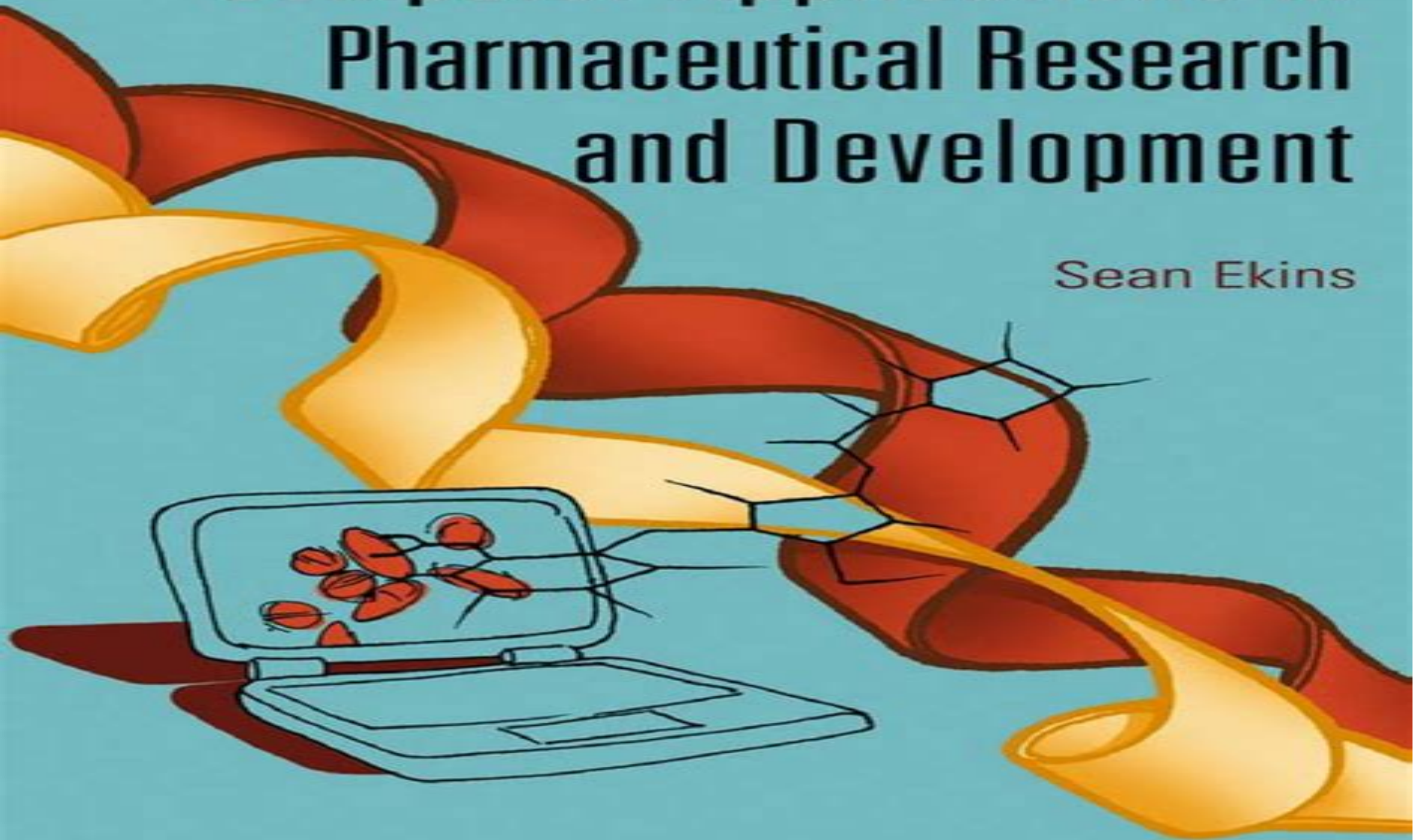
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# Computer Applications in Pharmaceutical Research and Development

Sean Ekins



# Computer Applications In Pharmaceutical Research And Development

**Jacques Cattell press**



## **Computer Applications In Pharmaceutical Research And Development:**

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unexplored avenues and future perspectives of drug design *Computer Applications in Pharmaceutical Science* S. L. Lim, 2019-09-19 Research and development in the pharmaceutical industry is a time consuming and expensive process making it difficult for newly developed drugs to be formulated into commercially available products Both formulation and process development can be optimized by means of statistically organized experiments artificial intelligence and other computational methods Simultaneous development and investigation of pharmaceutical products and processes enables application of quality by design concept that is being promoted by the regulatory authorities worldwide Computer aided applications in pharmaceutical technology covers the fundamentals of experimental design application and interpretation in pharmaceutical technology chemometric methods with emphasis of their application in process control neural computing It explains how applications are used at various stages The book offers readers a unique framework and systems perspective from which they can devise strategies to thoroughly exploit the use of computers in their organizations during all phases of the discovery and development process This is essential reading for IT professionals and scientists in the pharmaceutical industry as well as researchers involved in informatics The book s cross functional all phases approach provides a unique opportunity for a holistic analysis and assessment of computer applications in pharmaceuticals **Computer-Aided**

**Applications in Pharmaceutical Technology** Jelena Duris, 2013-04-10 Research and development in the pharmaceutical industry is a time consuming and expensive process making it difficult for newly developed drugs to be formulated into commercially available products Both formulation and process development can be optimized by means of statistically organized experiments artificial intelligence and other computational methods Simultaneous development and investigation of pharmaceutical products and processes enables application of quality by design concept that is being promoted by the regulatory authorities worldwide Computer Aided Applications in Pharmaceutical Technology covers the fundamentals of experimental design application and interpretation in pharmaceutical technology chemometric methods with emphasis of their application in process control neural computing artificial neural networks fuzzy logic and decision trees evolutionary computing and genetic algorithms self organizing maps computer aided biopharmaceutical characterization as well as application of computational fluid dynamics in pharmaceutical technology All of these techniques are essential tools for successful building of quality into pharmaceutical products and processes from the early stage of their development to selection of the optimal ones In addition to theoretical aspects of various methods the book provides numerous examples of their application in the field of pharmaceutical technology A comprehensive review of the current state of the art on various computer aided applications in pharmaceutical technology Case studies are presented in order to facilitate understanding of various concepts in computer aided applications **Data Acquisition and Processing in Biology and Medicine** Kurt

Enslein, 1966 Rich's High-tech Business Guide to Silicon Valley and Northern California , 1990 **New Scientist** , 1969

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