During the last few years the number of innovative medicinal products and devices submitted and approved by regulatory bodies declined dramatically. The medical product development process is no longer able to keep pace with increasing technologies, science and innovations. The goal of the critical research path is to develop new scientific and technical tools and to make product development processes more efficient and effective. This challenge involves an increasing use of statistical methods.

Statistical Methods in Healthcare focuses on the application of statistical methodologies to evaluate promising alternatives, and to optimize performance and demonstrate effectiveness of those that warrant pursuit, which is critical to success.

This book looks at the statistical methods used in planning, delivering and monitoring health care, as well as selected statistical aspects of the development and/or production of pharmaceuticals and medical devices.

This book focuses on the following aspects addressing these challenges:

- The use of analytical and monitoring schemes to evaluate therapeutic performance.
- Implementation of innovative approaches to clinical development strategy.
- Adopting new technological advances by the pharmaceutical industry.
- The application of modern quality management systems to clinical practice, and to pharmaceutical development and production processes.
- The use of modern Statistical methods such as Adaptive Design, Seamless Design, Data Mining, Bayesian networks and Bootstrapping that can be applied to support the challenging new vision.

USD $130.00 £80.00 €96.30
In today's climate of intense industrial competition, certification and qualification are increasingly important. Statistical techniques in quality engineering play a vital role in these processes.

To aid you in your work, the Encyclopedia of Statistics in Quality and Reliability offers a vital knowledge source to support the development and implementation of statistical tools. It provides in-depth coverage of a wide variety of topics, including Six Sigma, Data Mining, Process Capability and Measurement Systems Analysis.

Including a large selection of case studies and practical suggestions, it appeals to professionals applying statistical methods in industry as well as to academics.

- Edited by top experts in the field
- Up-to-date information on modern statistical methods
- Offers a practical orientation of subjects
- Full content also available online via Wiley Online Library

Print
Hardback | Four volumes | 2432 pages | November 2007

Online
Email onlinelibrarysales@wiley.com for our full range of pricing options.

Read all articles online at wileyonlinelibrary.com