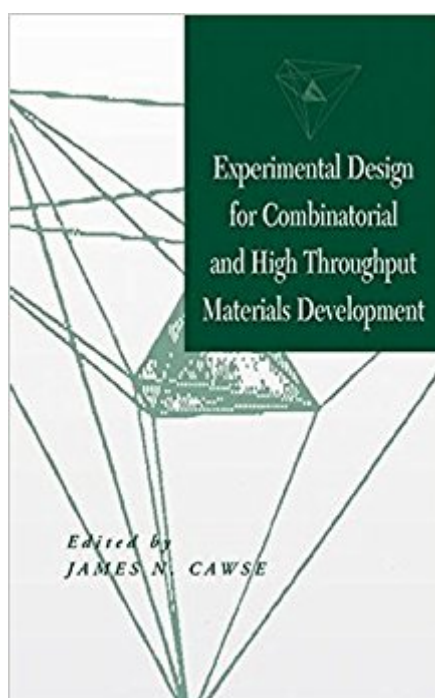The book was found

Experimental Design For Combinatorial And High Throughput Materials Development

Experimental Design
for Combinatorial
and High Throughput
Materials Development

Edited by
JAMES N. CAWSE

Synopsis

In the past decade, combinatorial and high throughput experimental methods have revolutionized the pharmaceutical industry, allowing researchers to conduct more experiments in a week than was previously possible in a year. Now high throughput experimentation is rapidly spreading from its origins in the pharmaceutical world to larger industrial research establishments such as GE and DuPont, and even to smaller companies and universities. Consequently, researchers need to know the kinds of problems, desired outcomes, and appropriate patterns for these new strategies. Editor James CawseÃ¢ ¬â„¢s far-reaching study identifies and applies, with specific examples, these important new principles and techniques. Experimental Design for Combinatorial and High Throughput Materials Development progresses from methods that are now standard, such as gradient arrays, to mathematical developments that are breaking new ground. The former will be particularly useful to researchers entering the field, while the latter should inspire and challenge advanced practitioners. The bookÃ¢ ¬â„¢s contents are contributed by leading researchers in their respective fields. Chapters include: -High Throughput Synthetic Approaches for the Investigation of Inorganic Phase Space -Combinatorial Mapping of Polymer Blends Phase Behavior -Split-Plot Designs -Artificial Neural Networks in Catalyst Development -The Monte Carlo Approach to Library Design and Redesign This book also contains over 200 useful charts and drawings. Industrial chemists, chemical engineers, materials scientists, and physicists working in combinatorial and high throughput chemistry will find James CawseÃ¢ ¬â„¢s study to be an invaluable resource.

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"This book is a must for everybody interested in high-throughput experimentation." (Materials Today, October 2004) "This book represents a highly important contribution to the field of combinatorial materials researchÃ¢â¬Â¦Ã¢â¬Â• (Angewandte Chemie International Edition, August 13, 2004)

An invaluable reference to increasingly popular experimental methods In the past decade, combinatorial and high throughput experimental methods have revolutionized the pharmaceutical industry, allowing researchers to conduct more experiments in a week than was previously possible in a year. Now high throughput experimentation is rapidly spreading from its origins in the pharmaceutical world to larger industrial research establishments such as GE and DuPont, and even to smaller companies and universities. Consequently, researchers need to know the kinds of problems, desired outcomes, and appropriate patterns for these new strategies. Editor James Cawse's far-reaching study identifies and applies, with specific examples, these important new principles and techniques. Experimental Design for Combinatorial and High Throughput Materials Development progresses from methods that are now standard, such as gradient arrays, to mathematical developments that are breaking new ground. The former will be particularly useful to researchers entering the field, while the latter should inspire and challenge advanced practitioners. The book's contents are contributed by leading researchers in their respective fields. Chapters include: * High Throughput Synthetic Approaches for the Investigation of Inorganic Phase Space * Combinatorial Mapping of Polymer Blends Phase Behavior * Split-Plot Designs * Artificial Neural Networks in Catalyst Development * The Monte Carlo Approach to Library Design and Redesign The text also contains over 200 useful charts and drawings. Industrial chemists, chemical engineers, materials scientists, and physicists working in combinatorial and high throughput chemistry will find James Cawse's study to be an invaluable resource.

Very well crafted bread product that is friendly on the wrists and hands. Would recommend to others and purchase again. Great buy at this price. great, great, and very happy. a present , the best product, high quality and low price .

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