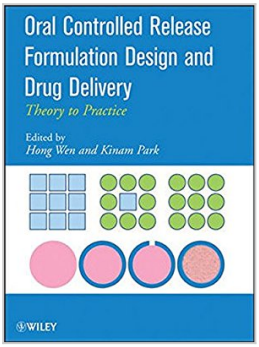

Oral Controlled Release Formulation Design and Drug Delivery: Theory to Practice

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This book describes the theories, applications, and challenges for different oral controlled release formulations. This book differs from most in its focus on oral controlled release formulation design and process development. It also covers the related areas like preformulation, biopharmaceutics, in vitro-in vivo correlations (IVIVC), quality by design (QbD), and regulatory issues.

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Editorial Review

Review

From the Back Cover

The comprehensive guide on the theories, applications, and challenges for oral controlled release formulations

As the use of drugs employing oral controlled release formulations continues to grow in popularity, the pharmaceutical industry must adapt to new developments in order to select the most stable and scalable technology for achieving desired pharmacokinetic profiles.

Oral Controlled Release Formulation Design and Drug Delivery is the first book of its kind to cover every aspect of oral controlled release formulations, including controlled release mechanisms, preformulation, biopharmaceutics, in vitro–in vivo correlations (IVIVC), quality by design (QbD), and regulatory affairs. Comprehensive in scope, this reference contains chapters written by some of the leading experts in the field, as well as offering additional details through a mixture of figures, tables, and references to provide information not found in similar texts. This book also discusses:

- The theoretical and applied practical guidance for scientists in developing oral controlled release (CR) formulations
- How oral formulations can be made based on physico-chemical and biopharmaceutical properties of a drug
- Why oral controlled release formulations are a hot topic for both R&D and commercial delivery products

Extending beyond traditional coverage of oral controlled release formulations based solely on design and process development, this book covers everything a pharmaceutical practitioner or student needs to know about this exciting and progressive drug delivery field to advance medicinal benefits for patients worldwide.

About the Author

HONG WEN, PhD, is a Fellow and Project Leader in the Department of Pharmaceutical Development at Novartis, as well as a core member of the Novartis TRD S&T committee. He has contributed to dozens of INDs/IMPDs in addition to several approved NDAs. His expertise spans from discovery support and preformulation to late-phase development of solid dosage forms. He also specializes in bioavailability enhancement for water insoluble drugs, oral sustained release (SR) formulations, and combination products (FDC). He has written fifteen publications, six presentations, and eight patents in the drug delivery and controlled release fields.

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