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to develop new drug delivery systems.

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Computational Pharmaceutics: Application of Molecular Modelling in Drug Delivery Defang Ouyang, Sean C. Smith, Dennis Douroumis, Alfred Fahr, Juergen Siepmann, Martin J. Snowden Molecular modeling techniques have been widely used in drug discovery fields for rational drug design and compound screening.

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Since joining Aston, he has pioneered the application of molecular modeling techniques in the field of drug delivery - "computational pharmaceutics", including cyclodextrin-drug complexes, solid dispersions, non-viral gene delivery systems and liposome formulations.

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Ke, Peng, Qi, Sheng, Sadowski, Gabriele and Ouyang, Defang (2015) Computational Pharmaceutics: Application of Molecular Modeling in Drug Delivery: Solid dispersion - a pragmatic method to improve the bioavailability of poorly soluble drugs. Wiley. ISBN 978-1-118-57399-0 Full text not available from this repository. (Request a copy)

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Computational pharmaceutics enables us to understand the mechanism of drug delivery, and to develop new drug delivery systems. The book discusses the modeling of different drug delivery systems, including cyclodextrins, solid dispersions, polymorphism prediction, dendrimer-based delivery systems, surfactant-based micelle, poly.

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Computational Pharmaceutics | Wiley Online Books

Computational pharmaceutics involves the applications of computational modelling to drug delivery and pharmaceutical nanotechnology. In combination with existing branches of pharmaceutics, it offers rapidly growing potential for developing rational, deductive and knowledge-based strategies in pharmaceutics.

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Computational Pharmaceutics by Ouyang, Defang (ebook)

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