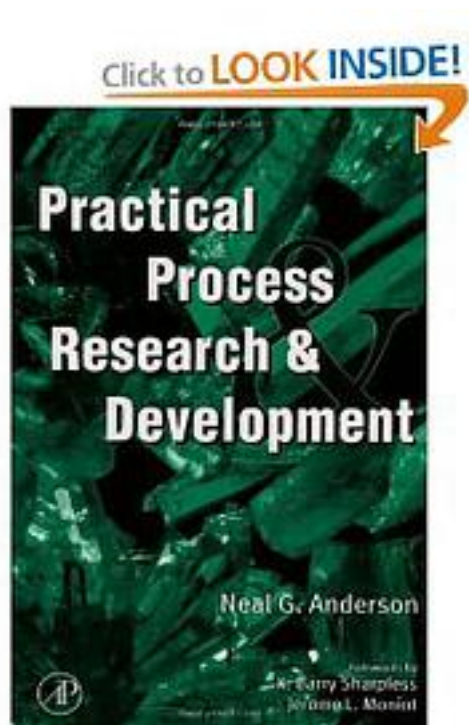


Practical Process Research and Development



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This book provides a comprehensive, step-by-step approach to organic process research and development in the pharmaceutical, fine chemical, and agricultural chemical industries. "Process R&D" describes the steps taken, following synthesis and evaluation, to bring key compounds to market in a cost-effective manner. More people are being hired for work in this area as increasing numbers of drug candidates are identified through combinatorial chemistry and high-throughput screening. This book is directed to industrial (primarily organic) chemists, and academicians (particularly those involved in a growing number of start-up companies) and students who need insight into industrial process R&D. Current books do not describe hands-on,

step-by-step, approaches to solving process development problems, including route, reagent, and solvent selection; optimising catalytic reactions; chiral syntheses; and "green chemistry." "Practical Process Research and Development" will be a valuable resource for researchers, managers, and graduate students. It provides insights into generating rugged, practical, cost-effective processes for the chemical preparation of "small molecules". It breaks down process optimization into route, reagent and solvent selection, development of reaction conditions, workup, crystallizations and more. It includes over 100 tips for rapid process development. It presents guidelines for implementing and troubleshooting processes.

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