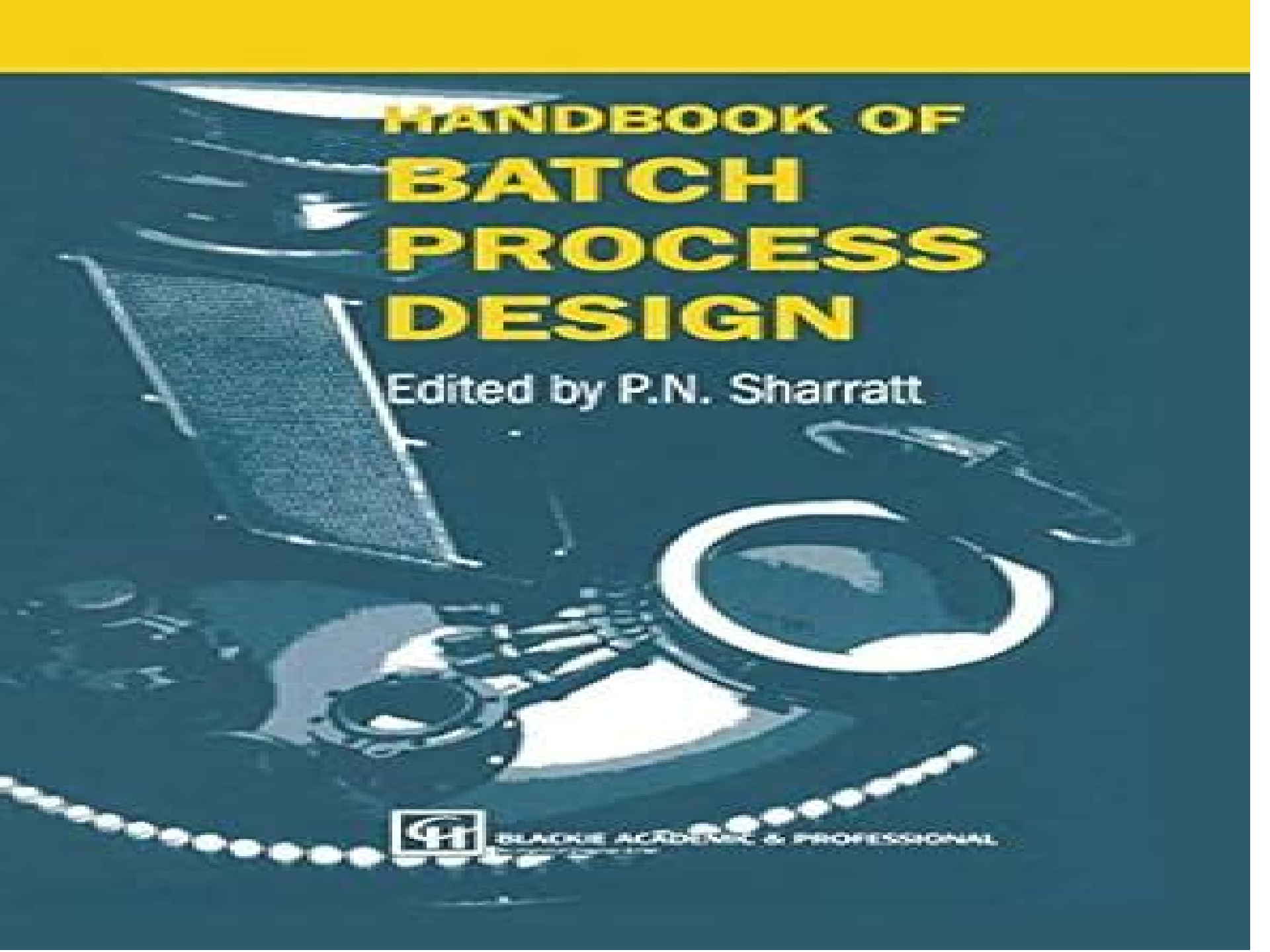




HANDBOOK OF BATCH PROCESS DESIGN

Edited by P.N. Sharratt



BLACKIE ACADEMIC & PROFESSIONAL

Handbook Of Batch Process Design

R Bogdan



Handbook Of Batch Process Design:

Handbook of Batch Process Design P.N. Sharratt, 2012-12-06 Batch processes are used to manufacture many fine organic chemicals and as such they can be considered to underpin much of the modern chemical industry. Despite widespread use and a consequent huge contribution to wealth creation, batch processes have attracted limited attention outside the user industries. Batch chemicals processing uses a number of core techniques and technologies such as scheduling and sequence control, agitation and batch filtration. The combination of these technologies with often complex chemistry, the multi-purpose nature of much of this type of plant, the distinctive safety and environmental issues and a fast-moving commercial environment makes the development of a successful batch process a considerable challenge for the chemist or engineer. The literature on the topics covered in this book is fragmented and often not easily accessible, so this handbook has been written to address this problem and to bring together design and process analysis methods in the core areas of batch process design. By combining the science and pragmatism required in the development of successful batch processes, this new book provides answers to real problems in an accessible and concise way. Written by an international team of authors drawn from industry, consulting and academia, this book is an essential part of the library of any chemist, technologist or engineer working on the development of new or existing batch processes. **Handbook of Process**

Integration (PI) Jiří Jaromír Klemeš, 2022-11-09 Handbook of Process Integration (PI) Minimisation of Energy and Water Use, Waste and Emissions. Second Edition provides an up-to-date guide on the latest PI research and applications. Since the first edition published, methodologies and sustainability targets have developed considerably. Each chapter has been fully updated with six new chapters added in this release covering emissions, transport, water scarcity, reliability and maintenance, environmental impact and circular economy. This version also now includes worked examples and simulations to deepen the reader's understanding. With its distinguished editor and international team of expert contributors, this book is an important reference work for managers and researchers in all energy and sustainability industries as well as academics and students in Energy, Chemical Process and Environmental Engineering. Provides a fully updated handbook with six new chapters that reflect the latest research and applications on process integration. Reviews a wide range of process design and integration topics ranging from heat and utility systems to water recycling, waste and hydrogen systems. Covers equipment design and operability issues with a strong extension to environmental engineering and suitability issues. *Instrument Engineers' Handbook, Volume Two* Bela G. Liptak, 2018-10-08 The latest update to Bela Liptak's acclaimed bible of instrument engineering is now available. Retaining the format that made the previous editions bestsellers in their own right, the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information. The authors are practicing engineers, not theoretical people from academia, and their from-the-trenches advice has been repeatedly tested in real-life applications. Expanded coverage includes descriptions of overseas manufacturers.

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