



**Handbook of Process Integration (PI):
Minimisation of Energy and Water Use, Waste and
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Since its first development in the 1970s, Process Integration (PI) has become an important methodology in achieving more energy efficient processes. This pioneering handbook brings together the leading scientists and researchers currently contributing to PI development, pooling their expertise and specialist knowledge to provide readers with a comprehensive and up-to-date guide to the latest PI research and applications.

After an introduction to the principles of PI, the book reviews a wide range of process design and integration topics ranging from heat and utility systems to water, recycling, waste and hydrogen systems. The book considers Heat Integration, Mass Integration and Extended PI as well as a series of applications and case studies. Chapters address not just operating and capital costs but also equipment design and operability issues, through to buildings and supply chains.

With its distinguished editor and international team of expert contributors, Handbook of Process Integration (PI) is a standard reference work for managers and researchers in all energy-intensive industries, as well as academics with an interest in them, including those designing and managing oil refineries, petrochemical and power plants, as well as paper/pulp, steel, waste, food and drink processors.

- This pioneering handbook provides a comprehensive and up-to-date guide to the latest process integration research and applications
- Reviews a wide range of process design and integration topics ranging from heat and utility systems to water, recycling, waste and hydrogen systems
- Chapters also address equipment design and operability issues, through to buildings and supply chains

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