



Handbook of Industrial Drying, Fourth Edition

From CRC Press



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By far the most commonly encountered and energy-intensive unit operation in almost all industrial sectors, industrial drying continues to attract the interest of scientists, researchers, and engineers. The **Handbook of Industrial Drying, Fourth Edition** not only delivers a comprehensive treatment of the current state of the art, but also serves as a consultative reference for streamlining industrial drying operations.

New to the **Fourth Edition**:

- Computational fluid dynamic simulation
- Solar, impingement, and pulse combustion drying
- Drying of fruits, vegetables, sugar, biomass, and coal
- Physicochemical aspects of sludge drying
- Life-cycle assessment of drying systems

Covering commonly encountered dryers as well as innovative dryers with future potential, the **Handbook of Industrial Drying, Fourth Edition** not only details the latest developments in the field, but also explains how improvements in dryer design and operation can increase energy efficiency and cost-effectiveness.

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Editorial Review

Review

"This is the 'bible' of drying technologies, without any other comparable publications. The continuous update of the contents and contributors has maintained the book's quality and relevance to the ongoing development of drying."

?Prof. Bhesh Bhandari, The University of Queensland, Brisbane, Australia

"The **Fourth Edition** of this handbook provides updates to the previous edition and includes 12 new chapters, which greatly increase the value of the publication. It should be emphasized that the authors of the individual chapters are specialists representing all continents of our globe, [making] the whole handbook useful in every region with different requirements and technological possibilities, especially in areas where the development of various fields of research and applications is at an early stage. ... The **Fourth Edition** is an example of a comprehensive set of applied research and engineering knowledge which enables and facilitates implementation of innovative plans and progress in drying technologies. Twelve new chapters have been added, which include pulse combustion drying, physicochemical aspects of sludge drying, supercritical fluid-assisted drying, and life-cycle assessment of drying systems. This compendium is very well edited and highly consistent in regard to content, nomenclature, tabular data presentation, graphs, and charts, despite the fact that it was prepared by a great number of contributing experts from all over the world. I am convinced that this book can be useful for students, Ph.D students, researchers, and practitioners involved in drying technologies."

?Janusz Adamiec, Faculty of Process and Environmental Engineering, Lodz University of Technology, Poland (Retired)

About the Author

Arun S. Mujumdar is adjunct professor at McGill University, Montreal, and Western University, London, Canada. He earned his B.Chem.Eng with distinction from the Institute of Chemical Technology, Mumbai, India, and his M.Eng and Ph.D from McGill University. He is the founder/program chairman of the International Drying Symposium series. His work has been featured in over 500 refereed publications. He has authored two books, edited over 60 books, and currently serves as the editor-in-chief of *Drying Technology?An International Journal*. He is the recipient of numerous international awards including Doctor Honoris Causa from Lodz Technical University, Poland and the University of Lyon, France. In 2014 he received the prestigious National Award for International Cooperation in Science and Technology from the Government of China.

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