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This five-volume series provides a comprehensive overview of all important aspects of modern drying technology, concentrating on the transfer of cutting-edge research results to industrial use. Volume 4 deals with the reduction of energy demand in various drying processes and areas, highlighting the following topics: Energy analysis of dryers, efficient solid-liquid separation techniques, osmotic dehydration, heat pump assisted drying, zeolite usage, solar drying, drying and heat treatment for solid wood and other biomass sources, and sludge thermal processing.

This five-volume series provides a comprehensive overview of all important aspects of modern drying technology, concentrating on the transfer of cutting-edge research results to industrial use. Volume 5 is dedicated to process intensification by hybrid processes that combine convective or contact heat transfer with microwaves, ultrasound or radiation. Process intensification by more efficient choice, distribution, and flow of the drying medium - such as impinging jet drying, pulse combustion drying, superheated steam drying, drying in specially designed spouted beds - are thoroughly discussed. Moreover, methods that favorably affect the process by changing the structure of the drying product, e.g. foaming, electroporation, are treated. Emphasis is placed on drying, including freeze-drying, of sensitive materials such as foods, biomaterials and pharmaceuticals.

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Released Volumes of Modern Drying Technology: \* Volume 1: Computational Tools at Different Scales ISBN 978-3-527-31556-7 \* Volume 2: Experimental Techniques ISBN 978-3-527-31557-4 \* Volume 3: Product Quality and Formulation ISBN 978-3-527-31558-1 \* Volume 4: Energy Savings ISBN 978-3-527-31559-8 \* Set (Volume 1-5) ISBN 978-3-527-31554-3

These five-volume series provide a comprehensive overview of all important aspects of drying technology like computational tools at different scales (Volume 1), modern experimental and analytical techniques (Volume 2), product quality and formulation (Volume 3), energy savings (Volume 4) and process intensification (Volume 5) Based on high-level cutting-edge results contributed by internationally recognized experts in the various treated fields, this book series will help engineers achieve greater efficiency for an unavoidable, yet vital process Located at the intersection of the two main approaches in modern chemical engineering, product engineering and process systems engineering, the series brings theory into practice in order to improve the quality of high-value dried products, save energy, and cut the costs of drying processes Available in print as 5 Volume Set or as individual volumes. Buy the Set and SAVE 30%! Also available online. For further information, visit [wileyonlinelibrary.com](http://wileyonlinelibrary.com) Individual volumes: Volume 1 - Modern Drying Technology, Computational Tools at Different Scales Volume 1: Diverse model types for the drying of products and the design of drying processes (short-cut methods, homogenized, pore network, and continuous thermo-mechanical approaches) are treated, along with computational fluid dynamics, population balances, and process systems simulation tools. Emphasis is put on scale transitions. Volume 2 - Modern Drying Technology:



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Experimental Techniques Volume 2: Comprises experimental methods used in various industries and in research in order to design and control drying processes, measure moisture and moisture distributions, characterize particulate material and the internal micro-structure of dried products, and investigate the behavior of particle systems in drying equipment. Key topics include acoustic levitation, near-infrared spectral imaging, magnetic resonance imaging, X-ray tomography, and positron emission tracking. Volume 3 - Modern Drying Technology: Product Quality and Formulation Volume 3: Discusses how desired properties of foods, biomaterials, active pharmaceutical ingredients, and fragile aerogels can be preserved during drying, and how spray drying and spray fluidized bed processes can be used for particle formation and formulation. Methods for monitoring product quality, such as process analytical technology, and modeling tools, such as Monte Carlo simulations, discrete particle modeling and neural networks, are presented with real examples from industry and academia. Volume 4 - Modern Drying Technology: Energy Savings Volume 4: Deals with the reduction of energy demand in various drying processes and areas, highlighting the following topics: Energy analysis of dryers, efficient solid-liquid separation techniques, osmotic dehydration, heat pump assisted drying, zeolite usage, solar drying, drying and heat treatment for solid wood and other biomass sources, and sludge thermal processing. Volume 5 - Process Intensification Volume 5: Dedicated to process intensification by more efficient distribution and flow of the drying medium, foaming, controlled freezing, and the application of superheated steam, infrared radiation, microwaves, power ultrasound and pulsed electric fields. Process efficiency is treated in conjunction with the quality of sensitive products, such as foods, for a variety of hybrid and combined drying processes.

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This five-volume series provides a comprehensive overview of all important aspects of modern drying technology, concentrating on the transfer of cutting-edge research results to industrial use. Volume 4 deals with the reduction of energy demand in various drying processes and areas, highlighting the following topics: Energy analysis of dryers, efficient solid-liquid separation techniques, osmotic dehydration, heat pump assisted drying, zeolite usage, solar drying, drying and heat treatment for solid wood and other biomass sources, and sludge thermal processing.

This five-volume series provides a comprehensive overview of all important aspects of modern drying technology, concentrating on the transfer of cutting-edge research results to industrial use. Volume 3 discusses how desired properties of foods, biomaterials, active pharmaceutical ingredients, and fragile aerogels can be preserved during drying, and how spray drying and spray fluidized bed processes can be used for particle formation and formulation. Methods for monitoring product quality, such as process analytical technology, and modeling tools, such as Monte Carlo simulations, discrete particle modeling and neural networks, are presented with real examples from industry and academia.

This five-volume handbook provides a comprehensive overview of all important aspects of modern drying technology, including only advanced results. In this first volume diverse model types for the drying of products and the design of drying processes (short-cut methods, homogenized, pore network, and continuous thermo-mechanical approaches) are treated, along with computational fluid dynamics, population balances, and process systems simulation tools. Emphasis is put on scale transitions.

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This book offers a comprehensive reference guide to the latest developments and advances in solar drying technology, covering the concept, design, testing, modeling, and economics of solar drying technologies, as well as their impact on the environment. The respective chapters are based on the latest studies conducted by reputed international researchers in the fields of solar energy and solar drying. Offering a perfect blend of research and practice explained in a simple manner, the book represents a valuable resource for researchers, students, professionals, and policymakers working in the field of solar drying and related agricultural applications.

This book quantifies the potential for greater energy efficiency in industry on the basis of technology- and sector-related analyses. Starting from the methodological fundamentals, the first part discusses the electricity- and heat-based basic technologies and cross-sectional processes on the basis of numerous application examples. In addition to classic topics such as lighting and heat recovery, the study also covers processes that have received less attention to date, such as drying and painting. The second part is devoted to energy-intensive industries, in particular metal production and processing, the manufacture of the non-metallic materials cement and glass, and the chemical, paper, plastics and food industries. Both parts are concluded by placing them in a larger energy and economic context. The findings are condensed into checklists at many points and summarized in the overall view at the end to form generally applicable recommendations. This book is a translation of the original German 2nd edition *Energieeffizienz in der Industrie* by Markus Blesl and Alois Kessler, published by Springer-Verlag GmbH Germany, part of Springer Nature in 2017. The

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Volume two of a five-volume handbook that provides a comprehensive overview of all important aspects of modern drying technology, presenting high-level, cutting-edge results. Volume 2 comprises modern experimental techniques such as magnetic resonance imaging for measurement and visualisation of moisture profiles in the interior of porous bodies during drying, Raman spectroscopy for measurement of concentration profiles during the drying of thin films/coatings and analytical methods for measurement of drying kinetics. Other modern experimental techniques covered include sorption equilibria and moisture content of individual particles, techniques for the determination of important quality indices - functional and structural properties - of dried products and instrumentation of modern drying equipment and respective plants.

Sometimes solving climate change seems impossibly complex, and it is hard to know what changes we all can and should make to help. This book offers hope. Drawing on the latest research, Mark Jaccard shows us how to recognize the absolutely essential actions (decarbonizing electricity and transport) and policies (regulations that phase out coal plants and gasoline vehicles, carbon tariffs). Rather than feeling paralyzed and pursuing ineffective efforts, we can all make a few key changes in our lifestyles to reduce emissions, to

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contribute to the urgently needed affordable energy transition in developed and developing countries. More importantly, Jaccard shows how to distinguish climate-sincere from insincere politicians and increase the chance of electing and sustaining these leaders in power. In combining the personal and the political, *The Citizen's Guide to Climate Success* offers a clear and simple strategic path to solving the greatest problem of our times. A PDF version of this title is also available as Open Access on Cambridge Core at [doi.org/10.1017/9781108783453](https://doi.org/10.1017/9781108783453).

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