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Titolo	Water and Energy Use in Sanitary-ware Manufacturing : Using Modelling Processes for Water and Energy Accounting and Decarbonisation / / by Carlos Cuviella-Suárez, David Borge-Diez, Antonio Colmenar-Santos
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Descrizione fisica	1 online resource (324 pages)
Collana	Green Energy and Technology, , 1865-3537
Disciplina	333.9116
Soggetti	Energy policy Manufactures Pollution Ecology Water Hydrology Energy Policy, Economics and Management Machines, Tools, Processes Environmental Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction to Ceramic Sanitary-Ware Production -- Types of Factories Casting Technology -- Planning for Energy and Water Management -- Production Line: Process and Energy Modeling -- Analysis of Consumptions -- Improvement Proposals -- Proposals Calculation -- Energy Supply vs Energy Demand -- Optimized Factory vs Conventional Factory -- Exergoeconomic Analysis -- Practical Implementation of Selected Configuration.
Sommario/riassunto	This book analyses and quantifies how and where energy and water are consumed by the ceramic sanitary-ware industry and provides solutions as to how to reduce this. The whole production process is mapped, including modelling methods. The book begins by providing an introduction to ceramic sanitary-ware production and types of factories casting technology. It then moves on to discuss the process

and energy modelling for the production line, analysis of energy and water consumptions and proposals for improvements. The last chapter presents the practical implementation of the selected modelling configuration. This book is of particular interest to water and energy management professionals within the ceramic industry, but the methods are of interest to those in other production industries as well.
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