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Titolo	Using renewable energies in buildings : heating and cooling supply, automation, executed examples // Elmar Bollin, editor
Pubbl/distr/stampa	Wiesbaden : , : Springer Vieweg, , [2023] ©2023
ISBN	3-658-41125-2
Descrizione fisica	1 online resource (270 pages) : illustrations, map
Disciplina	321.319
Soggetti	Electric power distribution Thermodynamics Heat engineering Heat - Transmission Mass transfer Energy Grids and Networks Engineering Thermodynamics, Heat and Mass Transfer
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction to the use of renewable energy sources -- Basics of the use of renewable energy sources in buildings -- Energy supply from renewable energy sources -- Storage systems -- Automation of systems for heat and cold supply from renewable energy sources -- Function monitoring and yield control -- Automation devices and their connection to building automation.
Sommario/riassunto	This textbook helps to effectively use regenerative systems for heat and cold generation. Integration and automation diagrams provide a quick overview. Practical examples clearly show standard solutions for the integration of regenerative energy sources. Control questions at the end of the main chapters serve to consolidate the understanding of the content. The content Introduction - Basics of the use of renewable energy sources in buildings - Energy supply from renewable energy sources - Storage systems - Automation of systems for heat and cold supply - Function monitoring and yield control - Automation devices and their connection The target groups - Students of mechanical

engineering and process engineering at universities and technical colleges Technology - Practitioners and engineers who deal with building automation solutions - Plant planners and sales engineers in the field of technical building equipment. The Editor The Editor Dipl.-Ing. Elmar Bollin has been a professor at Offenburg University of Applied Sciences since 1993. He heads the Institute for Energy Systems Engineering INES and is a member of the Control Engineering Working Group. All authors of the contributions are university professors and members of the Working Group Control Engineering. This book is a translation of an original German edition. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation.
