1. Record Nr. UNINA9910155548003321

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Titolo	Dynamic Isolation Technologies in Negative Pressure Isolation Wards / / by Zhonglin Xu, Bin Zhou
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2017
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (X, 216 p. 154 illus., 20 illus. in color.)
Disciplina	690
Soggetti	Building construction Fluids Air pollution Practice of medicine Building Physics, HVAC Fluid- and Aerodynamics Atmospheric Protection/Air Quality Control/Air Pollution Practice and Hospital Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Importance of negative pressure isolation ward -- Three misunderstandings in design process of negative pressure isolation ward -- Principle and technology of dynamic isolation -- Air distribution design in negative pressure isolation ward -- Determination of air change rate in negative pressure isolation ward -- Safety of exhaust and return air is prerequisite -- Design essentials for negative pressure isolation ward.
Sommario/riassunto	This book presents novel design principles and technologies for dynamic isolation based on experimental studies. These approaches have now become the local standard in Beijing and are currently being promoted for use nationwide. Further, the book provides details of measures and guidelines for the design process. Departing from the traditional understanding that isolation wards should be designed with high negative pressure, airtight doors and fresh air, it establishes the basis for designing biological clean rooms, including isolation wards, using a simple and convenient scientific approach. This book is

intended for designers, engineers, researchers, hospital management staff and graduate students in heating ventilation air conditioning (HVAC), air cleaning technologies and related areas.