1. Record Nr. UNIPARTHENOPE000027049

Autore	Xue, Dingyü
Titolo	Solving applied mathematical problems with MATLAB / Dingyü Xue, YangQuan Chen
Pubbl/distr/stampa	Boca Raton : Taylor & Francis, 2009
Titolo uniforme	Solving applied mathematical problems with MATLAB
ISBN	978-1-4200-8250-0
Descrizione fisica	432 p. : ill. ; 25 cm + 1 CD Rom
Altri autori (Persone)	Chen, YangQuan
Disciplina	519.402855369
Collocazione	DSA 519-S/2
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910299059203321

Autore	Ronchi Enrico
Titolo	Assessment of Total Evacuation Systems for Tall Buildings / / by Enrico Ronchi, Daniel Nilsson
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2014
ISBN	1-4939-1074-4
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (62 p.)
Collana	SpringerBriefs in Fire, , 2193-6595
Disciplina	628.9
Soggetti	Civil engineering Architecture Computer simulation Civil Engineering Architecture, general Simulation and Modeling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Method -- Limitations -- Model case study -- Discussion -- Future Research -- Conclusion.
Sommario/riassunto	This SpringerBrief focuses on the use of egress models to assess the optimal strategy for total evacuation in high-rise buildings. It investigates occupant relocation and evacuation strategies involving the exit stairs, elevators, sky bridges and combinations thereof. Chapters review existing information on this topic and describe case study simulations of a multi-component exit strategy. This review provides the architectural design, regulatory and research communities with a thorough understanding of the current and emerging evacuation procedures and possible future options. A model case study simulates seven possible strategies for the total evacuation of two identical twin towers linked with two sky-bridges at different heights. The authors present the layout of the building and the available egress components including both vertical and horizontal egress components, namely stairs, occupant evacuation elevators (OEEs), service elevators, transfer floors and sky-bridges. The evacuation strategies employ a continuous spatial representation evacuation model (Pathfinder) and are cross-

validated by a fine network model (STEPS). Assessment of Total Evacuation Systems for Tall Buildings is intended for practitioners as a tool for analyzing evacuation methods and efficient exit strategies. Researchers working in architecture and fire safety will also find the book valuable.