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Pedestrian And Evacuation Dynamics

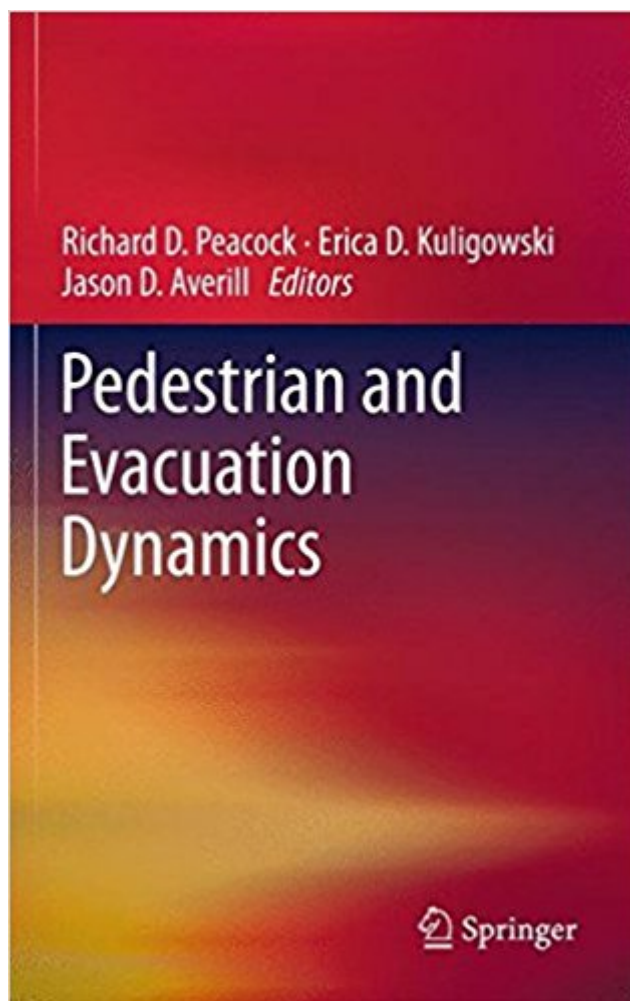Richard D. Peacock · Erica D. Kuligowski
Jason D. Averill *Editors*

Pedestrian and Evacuation Dynamics

Springer

Synopsis

An aging population, increasing obesity and more people with mobility impairments are bringing new challenges to the management of routine and emergency people movement in many countries. These population challenges, coupled with the innovative designs being suggested for both the built environment and other commonly used structures (e.g., transportation systems) and the increasingly complex incident scenarios of fire, terrorism, and large-scale community disasters, provide even greater challenges to population management and safety. Pedestrian and Evacuation Dynamics, an edited volume, is based on the Pedestrian and Evacuation Dynamics (PED) 5th International 2010 conference, March 8th-10th 2010, located at the National Institute of Standards and Technology, Gaithersburg, MD, USA. This volume addresses both pedestrian and evacuation dynamics and associated human behavior to provide answers for policy makers, designers, and emergency management to help solve real world problems in this rapidly developing field. Data collection, analysis, and model development of people movement and behavior during nonemergency and emergency situations will be covered as well.

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Preface.- Dedication.- Pedestrian and Evacuation Dynamics Awards.- Five Grand Challenges in Pedestrian and Evacuation Dynamics.- Data Collection (Evacuation).- Data Collection (Pedestrian).-

Data Collection (Vulnerable Groups).- Data Collection (Transport).- Data Collection Methods.- Theory for Models.- General Model Development.- Large-scale Modeling.- Transport Modeling.- Modeling Methods.- Model Calibration / Validation.- Vertical Egress.- Regulations / Engineering Guidance.- Posters

A highly specialised book with lots of useful information for traffic planners

Pedestrian and Evacuation Dynamics A Pedestrian Tour through the Islands of Guernsey and Jersey The Most Beautiful Walk in the World: A Pedestrian in Paris Reduced to a Symbolical Scale: The Evacuation of British Women and Children from Hong Kong to Australia in 1940 Retreat and Rearguard - Dunkirk 1940: The Evacuation of the BEF to the Channel Ports Saved by the Boats: The Heroic Sea Evacuation of September 11 (Encounter: Narrative Nonfiction Picture Books) Journey To Topaz: A Story Of The Japanese-American Evacuation Dust to Deliverance: Untold Stories from the Maritime Evacuation on September 11th (International Marine-RMP) Glencoe Biology: The Dynamics of Life, Reinforcement and Study Guide, Student Edition (BIOLOGY DYNAMICS OF LIFE) Tunneling Dynamics in Open Ultracold Bosonic Systems: Numerically Exact Dynamics â " Analytical Models â " Control Schemes (Springer Theses) Atmospheric and Space Flight Dynamics: Modeling and Simulation with MATLAB® and Simulink® (Modeling and Simulation in Science, Engineering and Technology) Molecular Gas Dynamics: Theory, Techniques, and Applications (Modeling and Simulation in Science, Engineering and Technology) Structural Dynamics of Earthquake Engineering: Theory and Application Using Mathematica and Matlab (Woodhead Publishing Series in Civil and Structural Engineering) Tribology and Dynamics of Engine and Powertrain: Fundamentals, Applications and Future Trends (Woodhead Publishing in Mechanical Engineering) Bio-mechanisms of Swimming and Flying: Fluid Dynamics, Biomimetic Robots, and Sports Science Aircraft Control and Simulation: Dynamics, Controls Design, and Autonomous Systems The Lattice Boltzmann Equation for Fluid Dynamics and Beyond (Numerical Mathematics and Scientific Computation) Religion and Empire: The Dynamics of Aztec and Inca Expansionism (New Studies in Archaeology) Mechanisms and Machines: Kinematics, Dynamics, and Synthesis Nonlinear Dynamics And Chaos: With Applications To Physics, Biology, Chemistry And Engineering (Studies in Nonlinearity)

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