



Landslides: Types, Mechanisms and Modeling

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Landslides have geological causes but can be triggered by natural processes (rainfall, snowmelt, erosion and earthquakes) or by human actions such as agriculture and construction. Research aimed at better understanding slope stability and failure has accelerated in recent years, accompanied by basic field research and numerical modeling of slope failure processes, mechanisms of debris movement, and landslide causes and triggers. Written by 75 world-leading researchers and practitioners, this book provides a state-of-the-art summary of landslide science. It features both field geology and engineering approaches, as well as modeling of slope failure and run-out using a variety of numerical codes. It is illustrated with international case studies integrating geological, geotechnical and remote sensing studies and includes recent slope investigations in North America, Europe and Asia. This is an essential reference for researchers and graduate students in geomorphology, engineering geology, geotechnical engineering and geophysics, as well as professionals in natural hazard analysis.

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Editorial Review

Review

"A good list of references ends each chapter. The volume contains ample photos and illustrations...Recommended. Graduate students, researchers/faculty, and professionals/practitioners." - C.W. Dimmick, Central Connecticut State University, Choice May 2013

About the Author

John Clague is the Canada Research Chair in Natural Hazard Research at Simon Fraser University and also, at the same institution, Director of the Centre for Natural Hazard Research. He has published over 250 papers in 45 different journals on a range of earth science disciplines, including glacial geology, geomorphology, stratigraphy, sedimentology and natural hazards. Dr Clague's other principal professional interest is improving public awareness of earth science by making relevant geoscience information available: he has written two popular books on the geology and geologic hazards of southwest British Columbia and a textbook on natural hazards. He is the recipient of the Geological Society of America Burwell Award, the Royal Society of Canada Bancroft Award, the Geological Association of Canada's (GAC) 2006 E. R. W. Neale Medal and GAC's 2007 Logan Medal. He was the 2007-8 Richard Jahns Distinguished Lecturer for the Geological Society of America and Association of Environmental and Engineering Geology.

Doug Stead has over 30 years experience in rock and soil slope stability in industry, government and academia in the UK, Zambia, Hong Kong, Papua New Guinea and Canada. He is now Professor and Chair in Resource Geoscience and Geotechnics at Simon Fraser University. He has published extensively in the areas of rock mechanics and engineering geology with application to landslides, surface and underground mining. Dr Stead has a strong commitment to continuing development courses for professional engineers and geoscientists - delivering courses on the methods of data collection and numerical modelling of rock slopes. He is a Professional Engineer in British Columbia and a Chartered Engineer in the UK and is currently a member of the Engineering Geology editorial board and an Associate Editor of the Canadian Geotechnical Journal. He is a recipient of the Canadian Geotechnical Society Thomas Roy Award for Engineering Geology (2008) and the John Franklin Award for Rock Mechanics (2009).

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