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Autore BRAUN, Leonie : von

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Autore Lee Mark E.

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Contents and Preliminary Pages -- Risk -- Risk concepts, definitions and processes -- Landslides and landslide hazard -- Landslide risk -- Landslide risk concepts, components and analysis -- Qualitative risk assessment -- Estimating P(event): concepts, approaches and issues -- Estimating P(event): Bayes' theorem, event trees and fault trees -- Estimating P(event): statistical methods -- Estimating P(event): normalisation of base-rate frequency -- Estimating P(event): triggering events -- Estimating P(event): judgement and the use of experts -- Estimating P(event): reliability methods -- Exposure: P(hit|event) -- Vulnerability: P(damage|hit) -- Estimating the consequences -- Risk estimation: economic risk -- Risk estimation: individual and societal risk -- Landslide risk evaluation and management -- Recognising and communicating uncertainty -- Probability concepts -- Glossary of terms -- Index.

Sommario/riassunto

Landslide Risk Assessment, Third edition is the essential guide on establishing the likelihood and extent to which future slope failures could adversely impact society and affect urban areas. This book examines a variety of approaches to landslide risk assessment and management. It introduces the key challenges that practitioners will need to overcome when estimating the probability and consequences of landsliding. The use of risk criteria is described, marking the important transition between risk assessment and risk management. Now updated with the latest ISO and Society for Risk Analysis guidance, and with a focus on the impact of uncertainty and strength of knowledge on assessing risk plus much more, this book is the authoritative, musthave purchase for any practitioner operating in this area. With international case studies and examples to allow you to put theory into practice, this book covers \* risk concepts and models \* basic elements of landslide risk assessment \* landslide hazard \* qualitative and quantitative risk assessments \* exposure and vulnerability \* consequences \* quantifying risk \* assessing uncertainty and strength of knowledge This title will appeal to any geotechnical or civil engineer involved in slope engineering and landslide risk. It will have additional appeal to risk analysts, geomorphologists, hydrologists, foresters, environmental consultants, students, academics and researchers.