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Nota di contenuto	Preface -- Section 1 Natural Hazard Risks and Eco-DRR in the Alpine Space -- Chapter 1 The Concept of Risk and Natural Hazards by Cristian Accastello, Silvia Cocuccioni and Michaela Teich -- Chapter 2 Protective Forests for Ecosystem-based Disaster Risk Reduction (Eco-DRR) in the Alpine Space by Michaela Teich, Cristian Accastello, Frank Perzl and Frederic Berger -- Chapter 3 Protective Effects of Forests against Gravitational Natural Hazards by Frank Perzl, Alessia Bono, Matteo Garbarino and Renzo Motta -- Chapter 4 Flood Protection by Forests in Alpine Watersheds: Lessons Learned from Austrian Case Studies by Gerhard Markart, Michaela Teich, Christian Scheidl and Bernhard Kohl -- Section 2 Supporting Integrated Natural Hazard Risk Management by Eco-DRR -- Chapter 5 Geodata Requirements for Mapping Protective Functions and Effects of Forests by Frank Perzl and Michaela Teich -- Chapter 6 Natural Disturbances and Protection Forests: At the Cutting Edge of Remote Sensing Technologies for the Rapid Assessment of Protective Effects against Rockfall by Emanuele Lingua, Niccolo Marchi, Francesco Bettella, Maximiliano Costa, Francesco Pirotti, Marco Piras, Matteo Garbarino, Donato Morresi and Raffaella Marzan -- Chapter 7 Modeling Protective Forests for Gravitational Natural Hazards and How It Relates to Risk-Based Decision Support Tools by Christopher James Laplante D'Amboise, Michaela Teich, Anne Hormes, Stefan Steger and Frederic Berger -- Chapter 8 141 Influence of Canopy Disturbances on Runoff and

Landslide Disposition after Heavy Rainfall Events by Christian Scheidl, Micha Heiser, Sebastian Kamper, Thomas Thaler, Werner Rammer, Rupert Seidl, Klaus Klebinder, Veronika Lechner, Fabian Nagl, Bernhard Kohl and Gerhard Markart -- Chapter 9 155 Risk-Based Decision Support for Protective Forest and Natural Hazard Management by Cristian Accastello, Francesca Poratelli, Kathrin Renner, Silvia Cocuccioni, Christopher James Laplante D'Amboise and Michaela Teich -- Chapter 10 Cost-Benefit Analysis as a Basis for Risk-Based Rockfall Protection Forest Management by Christine Moos and Luuk Dorren -- Chapter 11 Avalanche Protection Forest: From Process Knowledge to Interactive Maps by Peter Bebi, Alexander Bast, Kevin Helzel, Gregor Schmucki, Natalie Brozova and Yves Buhler -- Chapter 12 Dealing with Uncertainties in the Assessment of the Avalanche Protective Effects of Forests by Ana Stritih -- Section 3 From Risk Communication to Science-Based Political Action to Facilitate Eco-DRR 211 -- Chapter 13 Stakeholder Integration and Participatory Processes as Part of an Ecosystem-Based and Integrated Natural Hazard Risk Management by Silvia Cocuccioni, Matthias Plorer and Michael Kirchner -- Chapter 14 Improving Risk Communication Strategies through Public Awareness and Engagement: Insights from South Tyrol and Carinthia by Lydia Pedoth, Fabio Carnelli, Gernot Koboltschnig, Paul Krenn, Anna Rudloff, Willigis Gallmetzer, Pierpaolo Macconi and Nicola Marangoni -- Chapter 15 How to Use Scientific Information: Road Map for Tailoring Your Own Natural Hazard Risk Management Solution by Michael Kirchner, Mirjana Stevanov and Max Krot.

Sommario/riassunto

Protective forests are a key component to reduce natural hazard risks in mountain areas by preventing or decreasing the frequency, magnitude and/or intensity of snow avalanches, rockfall, landslides, floods, and debris flows. This book summarizes the state-of-the-art knowledge and introduces methods and decision support tools to facilitate the use of protective forests for Ecosystem-based Disaster Risk Reduction (Eco-DRR) as part of an integrated risk management in the Alpine Space. Moreover, it highlights how translating scientific knowledge into practical solutions can only be achieved by an active and iterative exchange with practitioners and policy makers, and a common understanding of applied concepts and definitions. Only then can protective forests be managed sustainably under constantly changing climate and socio-economic conditions.

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Autore	Scarf F. L.
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