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Autore	LOWE, Vaughan
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Altri autori (Persone)	De JongCarmen CollinsDavid (David N.) RanziRoberto
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Nota di contenuto	Climate and Hydrology in Mountain Areas; Contents; List of contributors; List of symbols; Abbreviations; Introduction: Climate and Hydrology in Mountain Areas; 1 Alpine Climate Change and Cryospheric Responses: An Introduction; PART I SNOW AND ICE MELT; 2 Use of Positive Degree-Day Methods for Calculating Snow and Ice Melting and Discharge in Glacierized Basins in the Langtang Valley, Central Nepal; 3 Surface Energy Balance of High Altitude Glaciers in the Central Andes: The Effect of Snow Penitentes 4 Using Subgrid Parameterisation and a Forest Canopy Climate Model for Improving Forecasts of Snowmelt Runoff5 Assessment of Snow-covered Areas Using Air Temperatures During Melt in a Mountainous Basin; PART II SOIL WATER AND PERMAFROST; 6 Permafrost Monitoring in High Mountain Areas Using a Coupled Geophysical and Meteorological Approach; 7 Effects of Frozen Soil on the Groundwater Recharge in Alpine Areas; 8 Water Balance in Surface Soil: Analytical Solutions of Flow Equations and Measurements in the Alpine Toce Valley 9 Saturated Hydraulic Conductivity and Water Retention Relationships for Alpine Mountain SoilsPART III EVAPOTRANSPIRATION AND WATER BALANCE; 10 Water Balance Modeling with Fuzzy Parameterizations: Application to an Alpine Catchment; 11 Water Relations of an Old-growth Douglas Fir Stand; 12 Comparison of Evapotranspiration and Condensation Measurements between the Giant Mountains and the Alps; 13 Climatologic and Hydrologic Coupling in the Ecology of Norwegian High Mountain Catchments; PART IV COUPLING METEOROLOGY AND HYDROLOGY; 14 Runoff and Floods in the Alps: An Overview 15 The Use of Coupled Meteorological and Hydrological Models for Flash Flood Simulation16 Operational Weather Radar Assessment of Convective Precipitation as an Input to Flood Modelling in Mountainous Basins; 17 Geomorphological Zoning: An Improvement to Coupling Alpine Hydrology and Meteorology?; PART V CLIMATE CHANGE IMPACT AND MOUNTAIN HYDROLOGY; 18 The Influence of Glacier Retreat on Water Yield from High Mountain Areas: Comparison of Alps and Central Asia; 19 Snowmelt Under Different Temperature Increase Scenarios in the Swiss Alps 20 Climate Variability, Water Resources, and Hydrologic Extremes - Modeling the Water and Energy BudgetsIndex
Sommario/riassunto	A comprehensive overview of interaction of the major hydrological and meteorological processes in mountain areas ie Cryosphere and Climatic Change, Snow Melt and Soil Water, Run-off and Floods, Water fluxes and Water Balance, Hydro-meteorological Coupling and Modelling. Each section will review recent research in the field and illustrate key interactions with case studies from mountainous regions in Europe, The Americas and Central Asia.