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Note generali	Includes index.
Nota di contenuto	Part 1: Emerging issues on surface water management under change climate -- Chapter 1: River basin management: issues and challenges -- Chapter 2: Water conservation and management under climate change -- Chapter 3: Advances in rain water harvesting techniques -- Chapter 4: Hydrological and metrological modelling and prediction -- Part 2: Integrated groundwater management : An over view of challenges and issues -- Chapter 5: Impact of climate change on groundwater recharge -- Chapter 6: Assessment of groundwater balance through modelling techniques -- Chapter 7: Hydrogeological modelling and aquifer degradation.-Chapter 8: Groundwater contaminant modelling and prediction of flow path -- Chapter 9: Groundwater food and energy nexus -- Chapter 10: Assessment of groundwater potential zone -- Chapter 11: Ground and surface water interaction -- Part 3: Water quality assessment and prediction modelling -- Chapter 12: Assessment of surface and groundwater technology to mitigate hazardous contamination -- Chapter 13: Advanced water treatment and technology -- Chapter 14: Surface and

ground water quality interaction -- Chapter 15: Surface and ground water quality assessment and modelling -- Chapter 16: Application of biotechnology and nanomaterials for eco-friendly water treatment technology.-Part 4: Modelling extreme climate events : Intensity and magnitude of drought, flood and cyclone -- Chapter 17: Modeling magnitude and intensity of drought under climate change -- Chapter 18: Flash flood and riverine flood assessment and modelling.

Sommario/riassunto

This book presents the innovative ideas and technical expertise for the sustainable solution in the field of water resources. It covers various topics on sustainable water resources management under climate change where researchers and professionals have shared their experience, innovative ideas, issues, recent trends and future directions in field of water resources engineering, science and technology. This book culminates the importance of achieving the ways towards water security and espouse targets and measures that will allow the end-user to meet this challenge in conjunction. It is a compendium of research articles pertaining to the mitigation of water crisis, surface and groundwater management, watershed management and modelling, case studies related to wetland vulnerability, water pollution, water quality, extreme climate hazards and others issues and its sustainable diminution through ingenious ideas and technologies that will incur valuable information to the stakeholders in the society. Given its scope, this book will be useful for the researchers and professionals.
