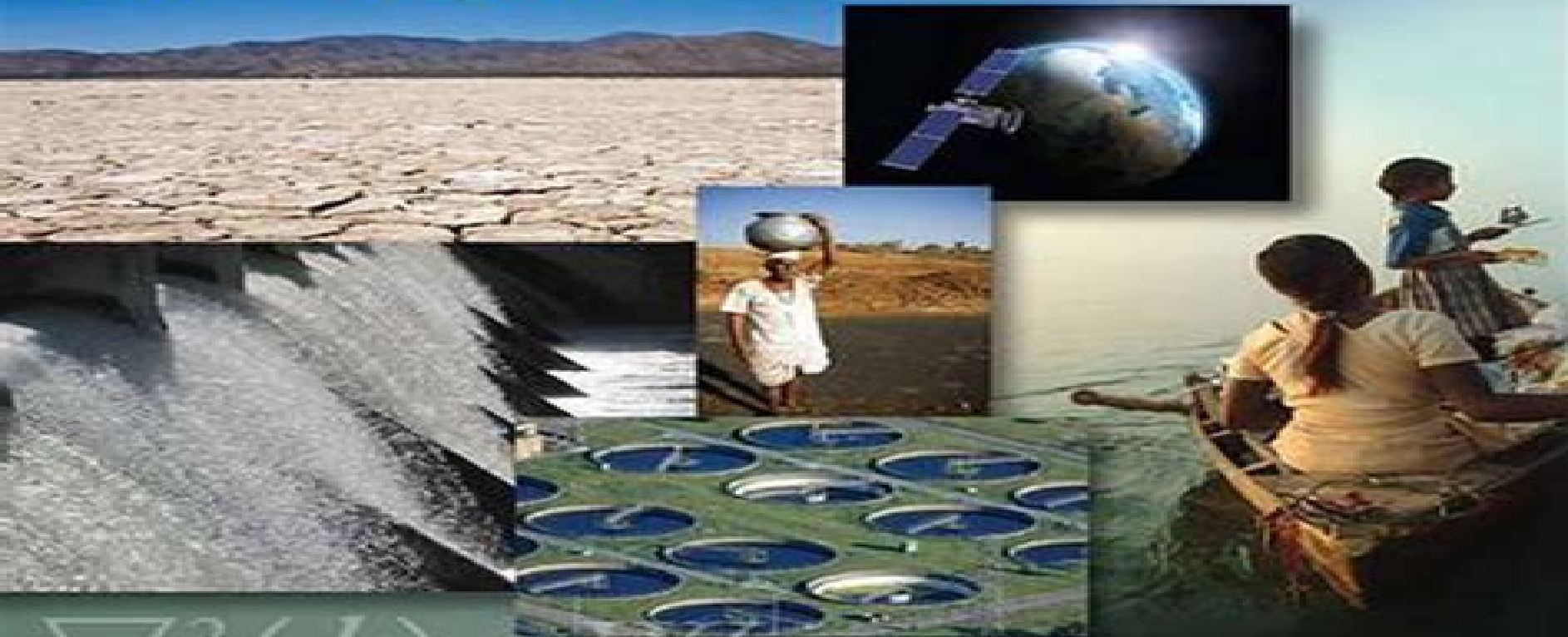


Modern Hydrology and Sustainable Water Development

S. K. Gupta



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Modern Hydrology

John C. Rodda, Mark Robinson



Modern Hydrology:

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Hydrological Processes Modelling and Data Analysis Vijay P. Singh, Rajendra Singh, Pranesh Kumar Paul, Deepak Singh Bisht, Srishti Gaur, 2024-04-01 This book provides a state of the art overview of the concepts and methodologies of data and modelling driven hydrological analyses and their wide range of practical applications The book is driven by the realisation that science technology engineering and mathematics STEM concepts are essential in engineering hydrology to produce well trained hydrologists Such hydrologists will be equipped to face future societal challenges that require enhanced information and communication technology tools and integration of technical and non technical areas The book contains 12 chapters that introduce the principles of hydrological data analysis and highlight the current and emerging tools and techniques for analysing hydrologic data The book describes the types of data typically used in hydrological analyses It highlights the revolutionary technological advancements made toward hydrological data collection including the use of drones and smartphones The foremost objective of the book is to present the hydrological data analysis procedures It explains the steps involved in data analysis for easy understanding of the reader including students and professionals This book presents case studies that demonstrate step by step procedures involved in typical analysis problems and may guide students and professionals in planning and executing steps to analyse the problem at hand Case study examples will guide them to understand the intricacies of hydrological data analysis It provides the readers with a complete package to enrich their understanding of the hydrological data analysis tools and techniques Subsequently as well trained hydrologists they could execute their learning to meet any specific grand challenge of the twenty first century *Modern Hydrology and*

Environmental Water Management Allison Sergeant, 2018-02-09 The study of the distribution of water on Earth along with the movement and quality of water is known as hydrology The branches of hydrology include chemical hydrology ecohydrology hydrometeorology surface hydrology drainage basin etc It elucidates the concepts and innovative models around prospective developments with respect to this area of study Coherent flow of topics student friendly language and extensive use of examples make this book an invaluable source of knowledge For someone with an interest and eye for detail this book covers the most significant topics in the field of hydrology and environmental water management **Modern Hydrology: Volume I** Stacy Keach, 2015-01-28 In the present scenario with water scarcity being a fast approaching possibility the relevance of hydrological studies has increased manifold Water is essential for human life thus understanding its properties quality and other aspects has always been an important area of research Through this book we attempt to further enlighten the readers about the new concepts in the field

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