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This book consists of 9 chapters. Chapter 1: the developments in hydrology, the hydrologic cycle and its components. Chapter 2: the atmosphere with the formation and types of precipitation, measurement of precipitation and the determination of average precipitation, intensityduration-frequency curves, frequency analysis and probable maximum precipitation. Chapter 3: evaporation and transpiration measurement of evaporation. Chapter 4: infiltration, factors influencing infiltration, measurement and estimation methods. Chapter 5: groundwater occurrences, groundwater movement and groundwater equations. Chapter 6: surface water and covers, factors affecting runoff, hydrometric measurement using various methods, rating curves, sediment measurement, sediment water relationships, hydrography analysis and reservoir storage analysis. Chapter 7: flood routing. It covers the basic equations, hydrologic storage and channel routing. Chapter 8: rainfallrunoff modeling, types of rainfall-runoff models, components and construction model. Chapter 9: floods and starts with definition of floods, causes of floods, the design flood.

Principles of Hydrology



Jonathan Matondo

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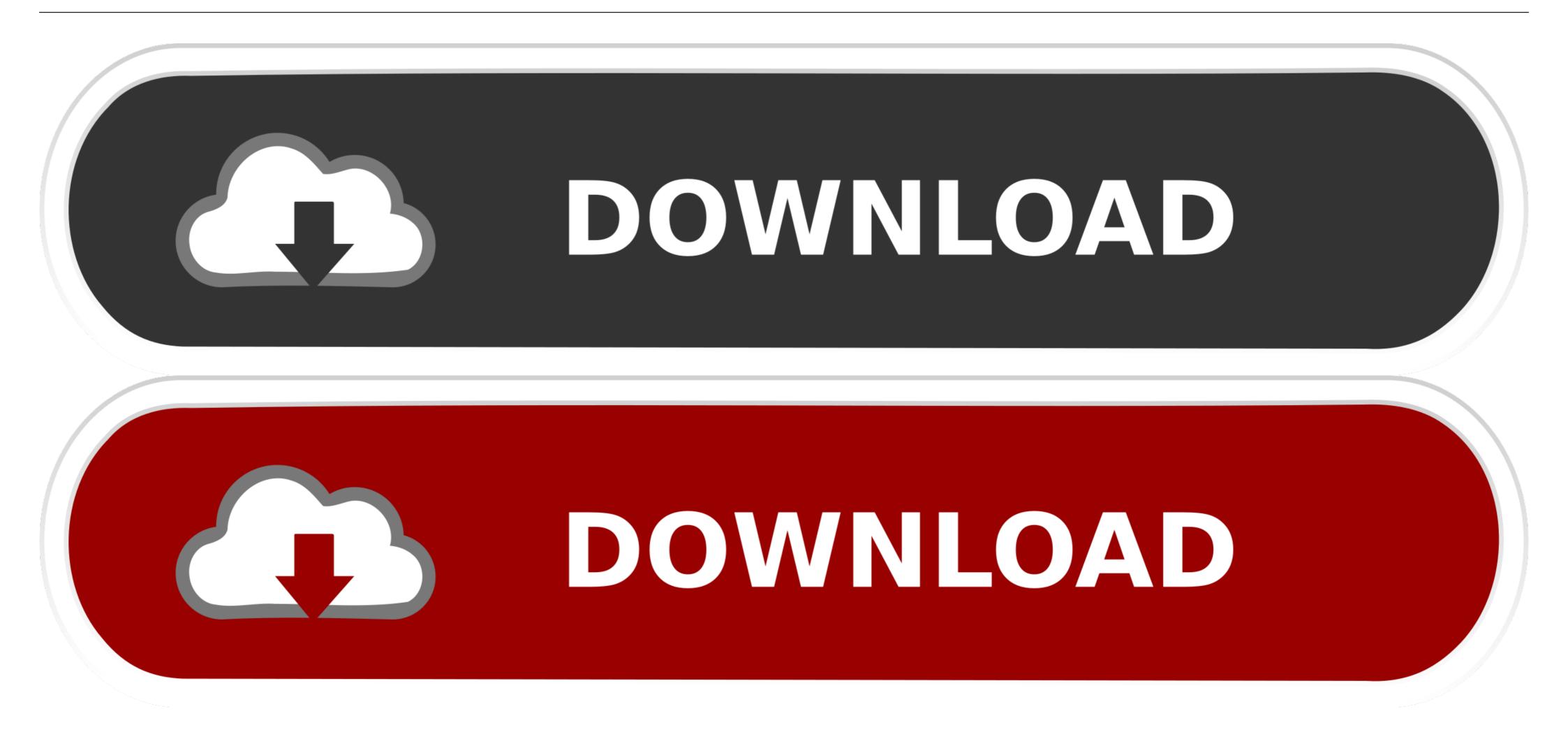
Jonathan I. Matondo is a Professor of Hydrology and Water Resources Planning and Management at the Univ. of Swaziland in the Department of Geography, Environmental science and Planning. His areas of expertise are: Hydrology, hydraulics, computer applications in hydraulics, hydrology, water resources management and modeling of climate change issues.



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10 HYDROLOGY: PRINCIPLES AND PROCESSES. Fig 1.1: Global water ... 0.5%. 1.0 INTRODUCTION. Water, the subject matter of hydrology, is ... http://www.unwater.org/downloads/Water_facts_and_trends.pdf. uN eNvIrONmeNT ...

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