

CONTENTS

Chapter 1 Introduction	1
Chapter 2 Weather and Hydrology	7
Chapter 3 Precipitation	47
Chapter 4 Streamflow	97
Chapter 5 Evaporation and Transpiration	134
Chapter 6 Subsurface Water	175
Chapter 7 Streamflow Hydrographs	204
Chapter 8 Relations between Precipitation and Runoff	234
Chapter 9 Hydrologic Routing	264
Chapter 10 Hydraulic Routing	286
Chapter 11 Erosion, Sedimentation, and the River Basin	311
Chapter 12 Deterministic Hydrologic Models	339
Chapter 13 Probability in Hydrology: A Basis for Planning	357
Chapter 14 Stochastic Hydrology	388
Chapter 15 Hydrology and Water Quality	412
Chapter 16 Applications of Hydrology	442
Appendix	470
Indexes	487