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now in its third edition hydrology and floodplain analysis continues to offer a clear and up to date presentation of the fundamental concepts and design methods required to understand hydrology and floodplain analysis it addresses the computational emphasis of modern hydrology and provides a balanced approach to important applications in watershed analysis floodplain computation flood control urban hydrology stormwater design and computer modeling includes hec hms hec ras and swmm models plus gis and radar rainfall the text is ideal for students taking an undergraduate or graduate course on hydrology while the practicing engineer should value the book as a modern reference for hydrologic principles flood frequency analysis floodplain analysis computer simulation and hydrologic storm water design updated coverage in the third edition includes three new chapters chapter 1 geographic information systems gis chapter 2 use of nexrad radar data chapter 3 floodplain management issues in hydrology a new detailed case study of a complex watershed using gis linked with radar technology new tools and technologies used for watershed analysis hydrologic modeling and modern floodplain delineation new examples and homework problems in each chapter

for undergraduate and graduate courses in hydrology this text offers a clear and up to date presentation of fundamental concepts and design methods required to understand hydrology and floodplain analysis it addresses the computational emphasis of modern hydrology and provides a balanced approach to important applications in watershed analysis floodplain computation flood control urban hydrology stormwater design and computer modeling

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urban hydrology stormwater design and computer modeling

digital elevation model issues in water resources modeling preparation of dems for use in environmental modeling analysis source water protection project a comparison of watershed delineation methods in arc info and arcview gis dem preprocessing for efficient watershed delineation gis tools for hms modeling support hydrologic model of the buffalo bayou using gis development of digital terrain representation for use in river modeling hec georas linking gis to hydraulic analysis using arc info and hec ras floodplain determination using arcview gis and hec ras the accuracy and efficiency of gis based floodplain determinations

focusing on conflict resolution water resources systems analysis discusses systematic approaches to the mathematical modeling of various water resources issues which helps decision makers allocate water effectively and efficiently readers will gain an understanding of simulation optimization multi criterion decision making as well as engineer

levees in california s central valley currently face an unacceptable high level of risk many agencies are now attempting to analyze the probability of levee failure and the resulting flooding and damages the california department of water resources dwr is currently evaluating the flood risk associated with the approximately 1 600 miles of state plan of flood control levees throughout california s central valley the objective of this study is to present a methodology for determining floodplains associated with various potential levee breaches middle creek and its tributaries contain 13 5 miles of levees that protect the town of upper lake in northern california according to dwr s flood control system status report many of these levees have a high potential for failure this study will utilize the most current topographical and survey data that is available from dwr to develop the hydraulic models vi the modeling software used

for this study includes the united states army corps of engineers hydrologic engineering center river analysis system hec ras and flo 2d developed by flo 2d software inc these softwares are used to model the one dimensional channel flows and two dimensional overland flood flows caused by levee breaches the popularity of two dimensional hydraulic models has grown substantially in recent years these two dimensional models have benefitted from increased computing power which has resulted in faster simulation times and lower project costs the hydraulic models for this study were developed to be consistent with the recommendations made by the dwr hydrology and hydraulics coordination work group which is a team of leading hydraulic modelers in california the results of the model simulations are presented as water surface profiles and floodplain depth and velocity maps for the 100 and 500 year flood events

the marmes rockshelter is one of the most significant archaeological sites in the pacific northwest not only due to its 11 000 year record of human use beginning in early holocene times but also because of the attention it generated toward american archaeology this volume includes a complete analysis and interpretation of all of the available information from the site s rockshelter and floodplain areas

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