

Water Resources Engineering By Larry W Mays Pdf

YEAH, REVIEWING A EBOOK **WATER RESOURCES ENGINEERING BY LARRY W MAYS PDF** COULD BUILD UP YOUR CLOSE CONTACTS LISTINGS. THIS IS JUST ONE OF THE SOLUTIONS FOR YOU TO BE SUCCESSFUL. AS UNDERSTOOD, FINISHING DOES NOT SUGGEST THAT YOU HAVE EXTRAORDINARY POINTS.

COMPREHENDING AS CAPABLY AS CONFORMITY EVEN MORE THAN SUPPLEMENTARY WILL PRESENT EACH SUCCESS. ADJACENT TO, THE NOTICE AS WITH EASE AS PERCEPTION OF THIS **WATER RESOURCES ENGINEERING BY LARRY W MAYS PDF** CAN BE TAKEN AS COMPETENTLY AS PICKED TO ACT.

URBAN WATER SUPPLY HANDBOOK - LARRY W MAYS 2002-05-14

THIS STATE-OF-THE-ART RESOURCE DRAWS UPON THE ACCUMULATED WISDOM OF A CAREFULLY CHOSEN TEAM OF INTERNATIONALLY RECOGNIZED EXPERTS SELECTED FOR THEIR EXTENSIVE EXPERIENCE IN THE ESSENTIAL ASPECTS OF WATER SUPPLY SYSTEMS. THIS INDUSTRY “WHO’S WHO” COVERS EVERYTHING FROM THE HISTORICAL PERSPECTIVES OF URBAN WATER SUPPLY TO PLANNING, SAFETY AND SECURITY – AN ESPECIALLY TIMELY AND CRUCIAL ISSUE, MANAGEMENT, PERFORMANCE INDICATORS, OPERATION, PRICING, MAINTENANCE, AND PUBLIC-PRIVATE PARTNERSHIPS. THE AUTHOR INCLUDES INFORMATIVE CASE STUDIES FOR VALUABLE “REAL WORLD” PERSPECTIVE.

COASTAL AND ESTUARINE PROCESSES - PETER NIELSEN 2009-04-21

THIS BOOK COVERS WATER WAVES, SURF ZONE HYDRODYNAMICS, TIDES IN OCEANS AND ESTUARIES, STORM SURGES, ESTUARINE MIXING, BASIC SEDIMENT TRANSPORT, COASTAL MORPHODYNAMICS AND COASTAL GROUNDWATER DYNAMICS. IT IS AN INTRODUCTORY TREATMENT, SUITABLE FOR A FIRST COURSE IN COASTAL AND ESTUARINE PROCESSES FOR EARTH SCIENTISTS OR ENGINEERS. YET, THERE ARE SUBSTANTIAL AMOUNTS OF NEW MATERIAL THAT ARE INCLUDED, SUCH AS THE EXPLICIT, ANALYTICAL TREATMENT OF TRANSIENT, FORCED LONG WAVES. INCLUSION OF THIS MATERIAL WILL IN TURN STRONGLY ENHANCE THE INTRODUCTORY TREATMENT OF TSUNAMI, STORM SURGES AND SURF BEAT. THE TREATMENT OF SINE WAVE THEORY EMPHASIZES EXPRESSIONS WHICH ARE EXPLICIT IN THE WATER DEPTH h (USING koh INSTEAD OF kh) SO THAT THEY CAN EASILY BE DIFFERENTIATED OR INTEGRATED WITH RESPECT TO h . THIS IS A MAJOR PEDAGOGICAL ADVANTAGE BECAUSE OF THE ENHANCED TRANSPARENCY. THE TREATMENT OF TURBULENT MIXING INCLUDES FINITE MIXING LENGTH EFFECTS WHICH PROVIDE AN EXPLANATION FOR DIFFERENTIAL DIFFUSION OF DIFFERENT SEDIMENT SIZES IN SUSPENSION. THE EFFECTS OF ACCELERATION SKEWNESS AND BOUNDARY LAYER STREAMING ARE ALSO INCLUDED IN THE BASIC SEDIMENT TRANSPORT MODELS. THE INCLUSION OF BEACH GROUNDWATER DYNAMICS — INCLUDING THE MECHANISMS BY WHICH WAVES AS WELL AS TIDES DRIVE GROUNDWATER MOTION — PROVIDES A LINK BETWEEN THE PREVIOUSLY UNCONNECTED FIELDS OF COASTAL HYDRAULICS AND REGIONAL GROUNDWATER MODELING. SERVING AS A GOOD REFERENCE BOOK, IT IS FULLY INDEXED AND COMPREHENSIVELY CROSS REFERENCED. ABUNDANT REFERENCES TO MORE DETAILED TEXTS ARE ALSO PROVIDED.

WATER RESOURCES ENGINEERING - RAY K. LINSLEY 1992

GROUNDWATER, DAMS, HYDROELECTRIC POWER, SEWERAGE AND WASTEWATER TREATMENT, FLOOD-DAMAGE MITIGATION.

INTRODUCTION TO HYDRAULICS & HYDROLOGY: WITH APPLICATIONS FOR STORMWATER MANAGEMENT - JOHN E. GRIBBIN 2013-01-01

WITH ITS COMPREHENSIVE COVERAGE OF HYDRAULICS AND HYDROLOGY IN A NON-CALCULUS FORMAT, THE FOURTH EDITION OF *INTRODUCTION TO HYDRAULICS & HYDROLOGY* CONTINUES THE SAME STRAIGHTFORWARD, PRACTICAL APPROACH THAT HAS MADE PREVIOUS EDITIONS SO POPULAR. DESIGNED TO PROVIDE READERS WITH AN UNDERSTANDING OF THE CONCEPTS OF HYDRAULICS AND SURFACE WATER HYDROLOGY AS THEY ARE USED IN EVERYDAY PRACTICE, THIS EDITION CONTAINS MULTIPLE OPPORTUNITIES FOR PRACTICE AND REAL-WORLD APPLICATIONS THAT ARE RELEVANT TO CIVIL ENGINEERING, LAND DEVELOPING, PUBLIC WORKS, AND LAND SURVEYING. COVERAGE INCLUDES TOPICS SUCH AS THE HISTORY OF WATER ENGINEERING, BASIC CONCEPTS OF COMPUTATION AND DESIGN, PRINCIPLES OF HYDROSTATICS AND HYDRODYNAMICS, OPEN CHANNEL FLOW, UNIT HYDROGRAPHS, AND RAINFALL, RUNOFF, AND ROUTING. UP-TO-DATE, CLEARLY SOLVED EXAMPLES ARE INCLUDED THROUGHOUT THE BOOK TO HELP READERS UNDERSTAND HOW CONCEPTS APPLY IN THE REAL-WORLD. IMPORTANT NOTICE: MEDIA CONTENT REFERENCED WITHIN THE PRODUCT DESCRIPTION OR THE PRODUCT TEXT MAY NOT BE AVAILABLE IN THE EBOOK VERSION.

OPEN CHANNEL HYDRAULICS - TERRY W. STURM 2001

THE BOOK IS INTENDED FOR ADVANCED UNDERGRADUATES AND FIRST-YEAR GRADUATE STUDENTS IN THE GENERAL FIELDS OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING. IT OFFERS A SELECTIVE PRESENTATION OF SOME OF THE MOST COMMON PROBLEMS ENCOUNTERED BY PRACTICING ENGINEERS WITH THE INCLUSION OF RECENT RESEARCH ADVANCES AND PERSONAL COMPUTER APPLICATIONS.

ENGINEERING APPLICATIONS IN SUSTAINABLE DESIGN AND DEVELOPMENT - BRADLEY STRIEBIG 2015-01-01

ENGINEERING APPLICATIONS IN SUSTAINABLE DESIGN AND DEVELOPMENT IS AN INVALUABLE RESOURCE FOR TODAY’S ENGINEERING STUDENT. FOCUSING ON PRESSING CONTEMPORARY ISSUES, THE TEXT PUTS PRODUCT DESIGN IN THE CONTEXT OF MODELS OF SUSTAINABILITY. RELEVANT CASE STUDIES FROM ACROSS THE GLOBE WILL BE OF INTEREST TO ENGINEERS IN TRAINING, AND ACTIVE LEARNING EXERCISES IN EACH CHAPTER HELP STUDENTS LEARN TO APPLY THEORY TO REAL WORLD SITUATIONS. IMPORTANT NOTICE: MEDIA CONTENT REFERENCED WITHIN THE PRODUCT DESCRIPTION OR THE PRODUCT TEXT MAY NOT BE AVAILABLE IN THE EBOOK VERSION.

HANDBOOK OF ENGINEERING HYDROLOGY (THREE-VOLUME SET) - SAEID ESLAMIAN 2014-03-21

WHILE MOST BOOKS EXAMINE ONLY THE CLASSICAL ASPECTS OF HYDROLOGY, THIS THREE-VOLUME SET COVERS MULTIPLE ASPECTS OF

HYDROLOGY, AND INCLUDES CONTRIBUTIONS FROM EXPERTS FROM MORE THAN 30 COUNTRIES. IT EXAMINES NEW APPROACHES, ADDRESSES GROWING CONCERNS ABOUT HYDROLOGICAL AND ECOLOGICAL CONNECTIVITY, AND CONSIDERS THE WORLDWIDE IMPACT OF CLIMATE CHANGE. IT ALSO PROVIDES UPDATED MATERIAL ON HYDROLOGICAL SCIENCE AND ENGINEERING, DISCUSSING RECENT DEVELOPMENTS AS WELL AS CLASSIC APPROACHES. PUBLISHED IN THREE BOOKS, *FUNDAMENTALS AND APPLICATIONS*; *MODELING, CLIMATE CHANGE, AND VARIABILITY*; AND *ENVIRONMENTAL HYDROLOGY AND WATER MANAGEMENT*, THE ENTIRE SET CONSISTS OF 87 CHAPTERS, AND CONTAINS 29 CHAPTERS IN EACH BOOK. STUDENTS, PRACTITIONERS, POLICY MAKERS, CONSULTANTS AND RESEARCHERS CAN BENEFIT FROM THE USE OF THIS TEXT.

GROUNDWATER HYDROLOGY - MOHAMMAD KARAMOUZ 2020-03-20

INCREASING DEMAND FOR WATER, HIGHER STANDARDS OF LIVING, DEPLETION OF RESOURCES OF ACCEPTABLE QUALITY, AND EXCESSIVE WATER POLLUTION DUE TO URBAN, AGRICULTURAL, AND INDUSTRIAL EXPANSIONS HAVE CAUSED INTENSE ENVIRONMENTAL, SOCIAL, ECONOMIC, AND POLITICAL PREDICAMENTS. MORE FREQUENT AND SEVERE FLOODS AND DROUGHTS HAVE CHANGED THE RESILIENCY AND ABILITY OF WATER INFRASTRUCTURE SYSTEMS TO OPERATE AND PROVIDE SERVICES TO THE PUBLIC. THESE CONCERNS AND ISSUES HAVE ALSO CHANGED THE WAY WE PLAN AND MANAGE OUR SURFACE AND GROUNDWATER RESOURCES. *GROUNDWATER HYDROLOGY: ENGINEERING, PLANNING, AND MANAGEMENT, SECOND EDITION* PRESENTS A COMPILATION OF THE STATE-OF-THE-ART SUBJECTS AND TECHNIQUES IN THE EDUCATION AND PRACTICE OF GROUNDWATER AND DESCRIBES THEM IN A SYSTEMATIC AND INTEGRATED FASHION USEFUL FOR UNDERGRADUATE AND GRADUATE STUDENTS AND PRACTITIONERS. THIS NEW EDITION FEATURES UPDATED MATERIALS, COMPUTER CODES, AND CASE STUDIES THROUGHOUT. FEATURES: DISCUSSES GROUNDWATER HYDROLOGY, HYDRAULICS, AND BASIC LAWS OF GROUNDWATER MOVEMENT DESCRIBES ENVIRONMENTAL WATER QUALITY ISSUES RELATED TO GROUNDWATER, AQUIFER RESTORATION, AND REMEDIATION TECHNIQUES, AS WELL AS THE IMPACTS OF CLIMATE CHANGE \ EXAMINES THE DETAILS OF GROUNDWATER MODELING AND SIMULATION OF CONCEPTUAL MODELS APPLIES SYSTEMS ANALYSIS TECHNIQUES IN GROUNDWATER PLANNING AND MANAGEMENT DELINEATES THE MODELING AND DOWNSCALING OF CLIMATE CHANGE IMPACTS ON GROUNDWATER UNDER THE LATEST IPCC CLIMATE SCENARIOS WRITTEN FOR STUDENTS AS WELL AS PRACTICING WATER RESOURCE ENGINEERS, THE BOOK DEVELOPS A SYSTEM VIEW OF GROUNDWATER FUNDAMENTALS AND MODEL-MAKING TECHNIQUES THROUGH THE APPLICATION OF SCIENCE, ENGINEERING, PLANNING, AND MANAGEMENT PRINCIPLES. IT DISCUSSES THE CLASSICAL ISSUES IN GROUNDWATER HYDROLOGY AND HYDRAULICS FOLLOWED BY COVERAGE OF WATER QUALITY ISSUES. IT ALSO INTRODUCES BASIC TOOLS AND DECISION-MAKING TECHNIQUES FOR FUTURE GROUNDWATER DEVELOPMENT ACTIVITIES, TAKING INTO ACCOUNT REGIONAL SUSTAINABILITY ISSUES. THE COMBINED COVERAGE OF ENGINEERING AND PLANNING TOOLS AND TECHNIQUES, AS WELL AS SPECIFIC CHALLENGES FOR RESTORATION AND REMEDIATION OF POLLUTED AQUIFERS SETS THIS BOOK APART.

WATER RESOURCES ENGINEERING - LARRY W. MAYS 2010-06-08

ENVIRONMENTAL ENGINEERS CONTINUE TO RELY ON THE LEADING RESOURCE IN THE FIELD ON THE PRINCIPLES AND PRACTICE OF WATER RESOURCES ENGINEERING. THE SECOND EDITION NOW PROVIDES THEM WITH THE MOST UP-TO-DATE INFORMATION ALONG WITH A REMARKABLE RANGE AND DEPTH OF COVERAGE. TWO NEW CHAPTERS HAVE BEEN ADDED THAT EXPLORE WATER RESOURCES SUSTAINABILITY AND WATER RESOURCES MANAGEMENT FOR SUSTAINABILITY. NEW AND UPDATED GRAPHICS HAVE ALSO BEEN INTEGRATED THROUGHOUT THE CHAPTERS TO REINFORCE IMPORTANT CONCEPTS. ADDITIONAL END-OF-CHAPTER QUESTIONS HAVE BEEN ADDED AS WELL TO BUILD UNDERSTANDING. ENVIRONMENTAL ENGINEERS WILL REFER TO THIS TEXT THROUGHOUT THEIR CAREERS.

CONSTRUCTION MANAGEMENT - JASON G SMITH 2011-06-03

A SINGLE MISTAKE, WHETHER MADE DURING THE BIDDING PROCESS OR WHEN EXECUTING A CONSTRUCTION PROJECT, CAN POTENTIALLY COST TENS OF THOUSANDS OF DOLLARS OR MORE. OF COURSE, THE SOONER MISTAKES ARE CAUGHT, THE LESS COSTLY THEY BECOME. BASED ON THE AUTHORS’ COMBINED EXPERIENCE WORKING ON PROJECTS LARGE AND SMALL, *CONSTRUCTION MANAGEMENT: SUBCONTRACTOR SCOPES OF WORK* DELINEATES HOW PROJECT TEAMS CAN AVOID MISTAKES AND RUN PROJECTS MORE INTELLIGENTLY, EFFECTIVELY, AND EFFICIENTLY. THIS BOOK’S CONCENTRATION ON THE NUTS AND BOLTS OF A CONSTRUCTION PROJECT, RATHER THAN ON BASIC PHILOSOPHIES AND CONCEPTS, SETS IT APART. IT FOCUSES NOT ON THE MECHANICS OF WRITING SUBCONTRACT SCOPES OF WORK, BUT ON WHY THEY ARE WRITTEN THE WAY THEY ARE. DESIGNED BY CONTRACTORS FOR CONTRACTORS, THIS IS NOT A BOOK OF SIMPLE CHECKLISTS DESCRIBING HOW TO ADDRESS VARIOUS ISSUES, BUT A COMPILATION OF PRACTICAL EXAMPLES AND LESSONS LEARNED TO FORM A KNOWLEDGE BASE THAT CAN BE APPLIED TO ANY PROJECT. THIS KNOWLEDGE CAN BE USED TO PREPARE BID DOCUMENTS THAT CLEARLY DEFINE THE ROLES OF THE VARIOUS SUBCONTRACTORS, ENSURING THE FULL SCOPE OF THE PROJECT IS COVERED WITHOUT REDUNDANCY OR DUPLICATION. PROVIDES INVALUABLE TRAINING WHILE MINIMIZING LOST PRODUCTIVITY! AUXILIARY MULTIPLE CHOICE TESTS AND ANSWER KEYS ARE AVAILABLE FOR DOWNLOAD FROM THE CRC WEBSITE. USING THIS FEATURE, EXECUTIVES WILL SPEND LESS

TIME PREPARING AND PRESENTING IN-HOUSE SEMINARS, EMPLOYEES CAN STUDY WHEN THEY WANT AND TAKE THE TESTS AT OPPORTUNE TIMES. WITH THIS BOOK AND DOWNLOADABLE TESTS, THE PRODUCTIVITY LOST DUE TO TRAINING IS REDUCED TREMENDOUSLY. DISAGREEMENTS OVER THE SCOPE OF WORK REQUIRED OF A GENERAL CONTRACTOR AND/OR TRADE SUBCONTRACTORS THAT ULTIMATELY END IN CONSTRUCTION DISPUTES PLAGUE THE CONSTRUCTION INDUSTRY. THIS BOOK ELUCIDATES PROBLEMATIC ASPECTS OF CONSTRUCTION PROJECTS WHILE ALSO PROVIDING INSIGHT INTO THE DIFFERENT PERSPECTIVES OF THE VARIOUS PROJECT TEAM MEMBERS. IT DELIVERS HELPFUL INFORMATION THAT PREVENTS GAPS IN SUBCONTRACT COVERAGE AND SCOPE DISAGREEMENTS AND REDUCES POTENTIAL CONSTRUCTION DISPUTES.

WATER RESOURCE SYSTEMS MANAGEMENT TOOLS - LARRY W. MAYS 2005

PUBLISHER'S NOTE: PRODUCTS PURCHASED FROM THIRD PARTY SELLERS ARE NOT GUARANTEED BY THE PUBLISHER FOR QUALITY, AUTHENTICITY, OR ACCESS TO ANY ONLINE ENTITLEMENTS INCLUDED WITH THE PRODUCT. THIS IS A UNIQUE, INTEGRATED APPROACH TO WATER RESOURCE SYSTEMS MANAGEMENT AND PLANNING. THE BOOK PROVIDES METHODS FOR ANALYZING WATER RESOURCE NEEDS, MODELING, SUPPLY RELIABILITY, IRRIGATION OPTIMIZATION, AND MUCH MORE. WITH MORE AND MORE ATTENTION BEING GIVEN TO THE WORLDWIDE INTEREST IN SUSTAINABILITY, TO THE EFFECTS OF GLOBAL CLIMATE CHANGE ON FUTURE WATER RESOURCES OPERATION AND MANAGEMENT, AS WELL AS PUBLIC HEALTH ISSUES, DR. MAYS HAS GATHERED TOGETHER LEADING EXPERTS IN THEIR RESPECTIVE FIELDS OFFERING THE LATEST INFORMATION ON THE SUBJECT. A FRESH APPROACH OFFERING INSIGHT FOR THE PRESENT GENERATION WITHIN THE WATER RESOURCES COMMUNITY.

ANCIENT WATER TECHNOLOGIES - L. MAYS 2010-05-19

THERE IS NO MORE FUNDAMENTAL RESOURCE THAN WATER. THE BASIS OF ALL LIFE, WATER IS FAST BECOMING A KEY ISSUE IN TODAY'S WORLD, AS WELL AS A SOURCE OF CONFLICT. THIS FASCINATING BOOK, WHICH SETS OUT MANY OF THE INGENIOUS METHODS BY WHICH ANCIENT SOCIETIES GATHERED, TRANSPORTED AND STORED WATER, IS A TIMELY PUBLICATION AS OVEREXTRACTION AND PROFLIGACY THREATEN THE EXISTENCE OF AQUIFERS AND WATERCOURSES THAT HAVE SUPPLIED OUR NEEDS FOR MILLENNIA. IT PROVIDES AN OVERVIEW OF THE WATER TECHNOLOGIES DEVELOPED BY A NUMBER OF ANCIENT CIVILIZATIONS, FROM THOSE OF MESOPOTAMIA AND THE INDUS VALLEY TO LATER SOCIETIES SUCH AS THE MYCENAEANS, MINOANS, PERSIANS, AND THE ANCIENT EGYPTIANS. OF COURSE, NO BOOK ON ANCIENT WATER TECHNOLOGIES WOULD BE COMPLETE WITHOUT DISCUSSING THE ENGINEERING FEATS OF THE ROMANS AND GREEKS, YET AS WELL AS COVERING THESE KEY CIVILIZATIONS, IT ALSO EXAMINES HOW ANCIENT AMERICAN SOCIETIES FROM THE HOHOKAMS TO THE MAYANS AND INCAS HUSBANDED THEIR WATER SUPPLIES. THIS UNUSUALLY WIDE-RANGING TEXT COULD OFFER TODAY'S PARCHED WORLD SOME SOLUTIONS TO THE IMPENDING CRISIS IN OUR WATER SUPPLY. "THIS BOOK PROVIDES VALUABLE INSIGHTS INTO THE WATER TECHNOLOGIES DEVELOPED IN ANCIENT CIVILIZATIONS WHICH ARE THE UNDERPINNING OF MODERN ACHIEVEMENTS IN WATER ENGINEERING AND MANAGEMENT PRACTICES. IT IS THE BEST PROOF THAT "THE PAST IS THE KEY FOR THE FUTURE." ANDREAS N. ANGELAKIS, HELLENIC WATER SUPPLY AND SEWERAGE SYSTEMS ASSOCIATION, GREECE "THIS BOOK MAKES A FUNDAMENTAL CONTRIBUTION TO WHAT WILL BECOME THE MOST IMPORTANT CHALLENGE OF OUR CIVILIZATION FACING THE GLOBAL CRISIS: THE PROBLEM OF WATER. ANCIENT WATER TECHNOLOGIES PROVIDES A COMPLETE PANORAMA OF HOW ANCIENT SOCIETIES CONFRONTED THEMSELVES WITH THE MANAGEMENT OF WATER. THE ROLE OF THIS VOLUME IS TO PROVIDE, FOR THE FIRST TIME ON THIS ISSUE, AN EXTENSIVE HISTORICAL AND SCIENTIFIC RECONSTRUCTION AND AN INDICATION OF HOW TRADITIONAL KNOWLEDGE MAY BE EMPLOYED TO ENSURE A SUSTAINABLE FUTURE FOR ALL." PIETRO LAUREANO, UNESCO EXPERT FOR ECOSYSTEMS AT RISK, DIRECTOR OF IPOGEA-INSTITUTE OF TRADITIONAL KNOWLEDGE, ITALY

CONSTRUCTION SCIENCE AND MATERIALS - SURINDER SINGH VIRDI 2017-01-09

CONSTRUCTION SCIENCE & MATERIALS IS DESIGNED TO COVER TOPICS STUDIED AT LEVELS 2 - 5 ON CONSTRUCTION HND COURSES AND IS ALSO SUITABLE FOR FIRST YEAR UNDERGRADUATES ON CONSTRUCTION COURSES AS WELL AS BUILDING SURVEYING, ARCHITECTURAL TECHNOLOGY AND QUANTITY SURVEYING. IT IS AN ESSENTIAL TEXT FOR THOSE WHO HAVE DONE NO SCIENCE SINCE THEIR GCSEs. DIVIDED INTO 17 CHAPTERS, EACH WITH WRITTEN EXPLANATIONS SUPPLEMENTED BY SOLVED EXAMPLES AND RELEVANT DIAGRAMS TO SUBSTANTIATE THE TEXT. CHAPTERS END WITH NUMERICAL QUESTIONS COVERING A RANGE OF PROBLEMS AND THEIR ANSWERS ARE GIVEN AT THE END OF THE BOOK AND ON THE BOOK'S WEBSITE.

HYDROSYSTEMS ENGINEERING AND MANAGEMENT - LARRY W. MAYS 2002

THIS BOOK IS INTENDED TO BE A TEXTBOOK FOR STUDENTS OF WATER RESOURCES ENGINEERING AND MANAGEMENT. IT IS AN INTRODUCTION TO METHODS USED IN HYDROSYSTEMS FOR UPPER LEVEL UNDERGRADUATE AND GRADUATE STUDENTS. THE MATERIAL CAN BE PRESENTED TO STUDENTS WITH NO BACKGROUND IN OPERATIONS RESEARCH AND WITH ONLY AN UNDERGRADUATE BACKGROUND IN HYDROLOGY AND HYDRAULICS. A MAJOR FOCUS IS TO BRING TOGETHER THE USE OF ECONOMICS, OPERATIONS RESEARCH, PROBABILITY AND STATISTICS WITH THE USE OF HYDROLOGY, HYDRAULICS, AND WATER RESOURCES FOR THE ANALYSIS, DESIGN, OPERATION, AND MANAGEMENT OF VARIOUS TYPES OF WATER PROJECTS. THIS BOOK IS AN EXCELLENT REFERENCE FOR ENGINEERS, WATER RESOURCE PLANNERS, WATER RESOURCE SYSTEMS ANALYSTS, AND WATER MANAGERS. THIS BOOK IS CONCERNED WITH THE MATHEMATICAL MODELING OF PROBLEMS IN WATER PROJECT DESIGN, ANALYSIS, OPERATION, AND MANAGEMENT. THE QUANTITATIVE METHODS INCLUDE: (A) THE SIMULATION OF VARIOUS HYDROLOGIC AND HYDRAULIC PROCESSES; (B) THE USE OF OPERATIONS RESEARCH, PROBABILITY AND STATISTICS, AND ECONOMICS. RARELY HAVE THESE METHODS BEEN INTEGRATED IN A SYSTEMATIC FRAMEWORK IN A SINGLE BOOK LIKE HYDROSYSTEMS ENGINEERING AND MANAGEMENT. AN EXTENSIVE NUMBER OF EXAMPLE PROBLEMS ARE PRESENTED FOR EASE IN UNDERSTANDING THE MATERIAL. IN ADDITION, A LARGE NUMBER OF END-OF-CHAPTER PROBLEMS ARE PROVIDED FOR USE IN HOMEWORK ASSIGNMENTS.

STORMWATER COLLECTION SYSTEMS DESIGN HANDBOOK - LARRY MAYS 2001-04-26

* A COMPREHENSIVE OVERVIEW OF STORMWATER AND WASTEWATER COLLECTION METHODS FROM AROUND THE WORLD, WRITTEN BY LEADING EXPERTS IN THE FIELD * INCLUDES DETAILED ANALYSIS OF SYSTEM DESIGNS, OPERATION, MAINTENANCE AND REHABILITATION *

THE MOST COMPLETE REFERENCE AVAILABLE ON THE SUBJECT

WATER MANAGEMENT IN ANCIENT CIVILIZATIONS - JONAS BERKING 2019

GEOENVIRONMENTAL ENGINEERING - HARI D. SHARMA 2004-05-20

GEOENVIRONMENTAL ENGINEERING COVERS THE APPLICATION OF BASIC GEOLOGICAL AND HYDROLOGICAL SCIENCE, INCLUDING SOIL AND ROCK MECHANICS AND GROUNDWATER HYDROLOGY, TO ANY NUMBER OF DIFFERENT ENVIRONMENTAL PROBLEMS. * INCLUDES END-OF-CHAPTER SUMMARIES, DESIGN EXAMPLES AND WORKED-OUT NUMERICAL PROBLEMS, AND PROBLEM QUESTIONS. * OFFERS THOROUGH COVERAGE OF THE ROLE OF GEOTECHNICAL ENGINEERING IN A WIDE VARIETY OF ENVIRONMENTAL ISSUES. * ADDRESSES SUCH ISSUES AS REMEDIATION OF IN-SITU HAZARDOUS WASTE, THE MONITORING AND CONTROL OF GROUNDWATER POLLUTION, AND THE CREATION AND MANAGEMENT OF LANDFILLS AND OTHER ABOVE-GROUND AND IN-SITU WASTE CONTAINMENT SYSTEMS.

WATER SUPPLY SYSTEMS SECURITY - LARRY MAYS 2004-04-08

A MUST FOR ENGINEERS, PROFESSORS, AND WATER UTILITY MANAGERS INVOLVED IN THE SECURITY OF WATER SUPPLY SYSTEMS. WRITTEN BY A TEAM OF EXPERTS, THIS IS THE FIRST BOOK TO PROVIDE COMPREHENSIVE, STATE-OF-THE-ART COVERAGE OF THE SAFETY AND SECURITY OF WATER SUPPLY SYSTEMS. THIS UNIQUE AND AUTHORITATIVE COMPENDIUM PRESENTS DETAILED COVERAGE OF THE MAJOR INFRASTRUCTURE ISSUES IN WATER SYSTEM SECURITY. TOPICS RANGE FROM VULNERABILITY ASSESSMENT TO SAFEGUARDS AGAINST CYBER THREATS TO HYDRAULIC NETWORK ANALYSIS FOR CONTAMINATION RESPONSE. EACH CHAPTER PROVIDES PROFESSIONAL GUIDANCE ON DESIGNING, OPERATING, MAINTAINING, AND REHABILITATING WATER SYSTEMS TO ENSURE STATE-OF-THE-ART AND SECURITY. FEATURES INCLUDE: * OVERVIEW OF METHODOLOGIES FOR RELIABILITY ANALYSIS AND ASSESSMENT OF VULNERABILITY TO TERRORIST ATTACK AND FOR EMERGENCY RESPONSE PLANNING. * MONITORING AND MODELING METHODS FOR EARLY WARNING SYSTEMS THAT ENHANCE SECURITY * SPECIALIZED REMOTE MONITORING EQUIPMENT, NETWORKS, AND OPTIMAL LOCATION OF CONTROL AND ISOLATION VALVES * ORGANIZATIONAL FRAMEWORKS AND PROCEDURES FOR IMPROVING THE SECURITY AND SAFETY OF WATER SUPPLY SYSTEMS * OPTIONS FOR EMERGENCY PREPAREDNESS, INCLUDING WATER SUPPLY FOR NONCONVENTIONAL TIMES AND CONTAMINATION RESPONSES * CASE STUDIES FROM THE FIELD: A RECONSTRUCTION OF HISTORICAL CONTAMINATION EVENTS * SECURITY HARDWARE AND SURVEILLANCE SYSTEMS

GROUND AND SURFACE WATER HYDROLOGY - LARRY W. MAYS 2011-07-29

FROM BEST-SELLING AND WELL-RESPECTED AUTHOR LARRY MAYS, GROUND AND SURFACE WATER HYDROLOGY PROVIDES BALANCED COVERAGE OF SURFACE AND GROUNDWATER HYDROLOGY. THE TEXT INCLUDES CURRENT AND EMERGING TOPICS SUCH AS SUSTAINABILITY, CLIMATE CHANGE, GIS, AND NEW MODELS AND DATA SOURCES, SO READERS WILL GAIN A COMPLETE AND CURRENT UNDERSTANDING OF HYDROLOGY. THIS BOOK MAY BE USED FOR AT LEAST THREE DIFFERENT UNDERGRADUATE COURSES INCLUDING: 1. FIRST COURSE WITH AN EMPHASIS IN SURFACE WATER HYDROLOGY 2. FIRST COURSE WITH EMPHASIS IN GROUNDWATER HYDROLOGY 3. FIRST COURSE IN HYDROLOGY WITH SIMILAR EMPHASIS ON GROUND AND SURFACE WATER HYDROLOGY. THIS BOOK IS ALSO A VALUABLE REFERENCE FOR PRACTICING CIVIL ENGINEERS, HYDROLOGISTS, ENVIRONMENTAL ENGINEERS, AND GEOLOGISTS.

IRRIGATION AND DRAINAGE ENGINEERING - PETER WALLER 2015-11-18

THIS TEXTBOOK FOCUSES SPECIFICALLY ON THE COMBINED TOPICS OF IRRIGATION AND DRAINAGE ENGINEERING. IT EMPHASIZES BOTH BASIC CONCEPTS AND PRACTICAL APPLICATIONS OF THE LATEST TECHNOLOGIES AVAILABLE. THE DESIGN OF IRRIGATION, PUMPING, AND DRAINAGE SYSTEMS USING EXCEL AND VISUAL BASIC FOR APPLICATIONS PROGRAMS ARE EXPLAINED FOR BOTH GRADUATE AND UNDERGRADUATE STUDENTS AND PRACTICING ENGINEERS. THE BOOK EMPHASIZES ENVIRONMENTAL PROTECTION, ECONOMICS, AND ENGINEERING DESIGN PROCESSES. IT INCLUDES DETAILED CHAPTERS ON IRRIGATION ECONOMICS, SOILS, REFERENCE EVAPOTRANSPIRATION, CROP EVAPOTRANSPIRATION, PIPE FLOW, PUMPS, OPEN-CHANNEL FLOW, GROUNDWATER, CENTER PIVOTS, TURF AND LANDSCAPE, DRIP, ORCHARDS, WHEEL LINES, HAND LINES, SURFACES, GREENHOUSE HYDROPONICS, SOIL WATER MOVEMENT, DRAINAGE SYSTEMS DESIGN, DRAINAGE AND WETLANDS CONTAMINANT FATE AND TRANSPORT. IT CONTAINS SUMMARIES, HOMEWORK PROBLEMS, AND COLOR PHOTOS. THE BOOK DRAWS FROM THE FIELDS OF FLUID MECHANICS, SOIL PHYSICS, HYDROLOGY, SOIL CHEMISTRY, ECONOMICS, AND PLANT SCIENCES TO PRESENT A BROAD INTERDISCIPLINARY VIEW OF THE FUNDAMENTAL CONCEPTS IN IRRIGATION AND DRAINAGE SYSTEMS DESIGN.

WATER RESOURCES ENGINEERING - LARRY W. MAYS 2019-04-02

MODERN WATER CONVEYANCE AND STORAGE TECHNIQUES ARE THE PRODUCT OF THOUSANDS OF YEARS OF HUMAN INNOVATION; TODAY WE RELY ON THAT SAME INNOVATION TO DEVISE SOLUTIONS TO PROBLEMS SURROUNDING THE RATIONAL USE AND CONSERVATION OF WATER RESOURCES, WITH THE SAME OVERARCHING GOAL: TO SUPPLY HUMANKIND WITH ADEQUATE, CLEAN, FRESHWATER. WATER RESOURCES ENGINEERING PRESENTS AN IN-DEPTH INTRODUCTION TO HYDROLOGICAL AND HYDRAULIC PROCESSES, WITH RIGOROUS COVERAGE OF BOTH CORE PRINCIPLES AND PRACTICAL APPLICATIONS. THE DISCUSSION FOCUSES ON THE ENGINEERING ASPECTS OF WATER SUPPLY AND WATER EXCESS MANAGEMENT, RELATING WATER USE AND THE HYDROLOGICAL CYCLE TO FUNDAMENTAL CONCEPTS OF FLUID MECHANICS, ENERGY, AND OTHER PHYSICAL CONCEPTS, WHILE EMPHASIZING THE USE OF UP-TO-DATE ANALYTICAL TOOLS AND METHODS. NOW IN ITS THIRD EDITION, THIS STRAIGHTFORWARD TEXT INCLUDES NEW LINKS TO ADDITIONAL RESOURCES THAT HELP STUDENTS DEVELOP A DEEPER, MORE INTUITIVE GRASP OF THE MATERIAL, WHILE THE DEPTH AND BREADTH OF COVERAGE RETAINS A LEVEL OF RIGOR SUITABLE FOR USE AS A REFERENCE AMONG PRACTICING ENGINEERS.

HYDRAULIC ENGINEERING OF DAMS - WILLI H. HAGER 2020-11-05

HYDRAULIC ENGINEERING OF DAMS AND THEIR APPURTENANT STRUCTURES COUNTS AMONG THE ESSENTIAL TASKS TO SUCCESSFULLY DESIGN SAFE WATER-RETAINING RESERVOIRS FOR HYDROELECTRIC POWER GENERATION, FLOOD RETENTION, AND IRRIGATION AND WATER SUPPLY DEMANDS. IN VIEW OF CLIMATE CHANGE, ESPECIALLY DAMS AND RESERVOIRS, AMONG OTHER WATER INFRASTRUCTURE, WILL AND HAVE TO PLAY AN EVEN MORE IMPORTANT ROLE THAN IN THE PAST AS PART OF NECESSARY MITIGATION AND ADAPTATION MEASURES TO

SATISFY VITAL NEEDS IN WATER SUPPLY, RENEWABLE ENERGY AND FOOD WORLDWIDE AS EXPRESSED IN THE SUSTAINABLE DEVELOPMENT GOALS OF THE UNITED NATIONS. THIS BOOK DEALS WITH THE MAJOR HYDRAULIC ASPECTS OF DAM ENGINEERING CONSIDERING RECENT DEVELOPMENTS IN RESEARCH AND CONSTRUCTION, NAMELY OVERFLOW, CONVEYANCE AND DISSIPATIONS STRUCTURES OF SPILLWAYS, RIVER DIVERSION FACILITIES DURING CONSTRUCTION, BOTTOM AND LOW-LEVEL OUTLETS AS WELL AS INTAKE STRUCTURES. FURTHERMORE, THE BOOK COVERS RESERVOIR SEDIMENTATION, IMPULSE WAVES AND DAMBREAK WAVES, WHICH ARE RELEVANT TOPICS IN VIEW OF SUSTAINABLE AND SAFE OPERATION OF RESERVOIRS. THE BOOK IS RICHLI ILLUSTRATED WITH PHOTOGRAPHS, HIGHLIGHTING THE VARIOUS APPURTENANT STRUCTURES OF DAMS ADDRESSED IN THE BOOK CHAPTERS, AS WELL AS FIGURES AND DIAGRAMS SHOWING IMPORTANT RELATIONS AMONG THE GOVERNING PARAMETERS OF A CERTAIN PHENOMENON. AN EXTENSIVE LITERATURE REVIEW ALONG WITH AN UPDATED BIBLIOGRAPHY COMPLETE THIS BOOK.

GROUNDWATER AND SEEPAGE - MILTON E. HARR 2012-12-04

DIVLLOGICAL, ANALYTICAL APPROACH TO SOLUTION OF GROUNDWATER AND SEEPAGE PROBLEMS. COVERAGE OF RUSSIAN WORK, ADVANCED ENGINEERING MATHEMATICS, NUMEROUS WORKED-OUT EXAMPLES, OVER 200 PROBLEMS. /div

APPLIED HYDROLOGY - RAY K. LINSLEY 1975

HYDRAULIC DESIGN HANDBOOK - LARRY W. MAYS 1999

PROVIDING CURRENT; BEST PRACTICE METHODS; TIPS; GUIDELINES; AND EXAMPLES TO HELP YOU HANDLE ANY HYDRAULIC DESIGN CHALLENGE; THIS ALL-INCLUSIVE; AUTHORITATIVE TEXT WILL SAVE YOU HOURS OF SEARCHING THROUGH JOURNALS AND FINE-PRINT GOVERNMENT PUBLICATIONS. --

WATER RESOURCES HANDBOOK - MAYS 1996-04-01

THE DEFINITIVE REFERENCE ON WATER RESOURCES MANAGEMENT AND ISSUES WATER RESOURCES HANDBOOK THIS HANDBOOK IS BY FAR THE MOST COMPREHENSIVE REFERENCE EVER PUBLISHED ON WATER RESOURCE ISSUES. WRITTEN BY THE FIELD'S TOP EXPERTS, IT PRESENTS AUTHORITATIVE INFORMATION ABOUT A VAST RANGE OF TOPICS. IT ALSO BRINGS INTO FOCUS THE MANY AND INCREASINGLY COMPLICATED FACTORS--INVOLVING NOT ONLY ENGINEERING BUT ALSO LAW, ECONOMICS, FINANCE, AND PUBLIC POLICY--THE DETERMINE THE QUANTITY AND QUALITY OF THE WORLD'S POTABLE WATER SUPPLY. NO MATTER WHAT YOUR AREA OF INTEREST, IF IT CONCERNS WATER RESOURCES YOU'RE LIKELY TO FIND IT IN THIS VOLUME. AREAS COVERED INCLUDE: TREATISES ON THE STATE OF THE ART IN WATER RESOURCE ECONOMICS AND LAW POLICY-MAKING AND PLANNING, AND SYSTEM ANALYSIS AND RISK ANALYSIS; QUALITY MANAGEMENT OF NATURAL SYSTEMS SUCH AS LAKES, RESERVOIRS, RIVERS, GROUNDWATER, ESTUARIES, AND WETLANDS; WATER SUPPLY SYSTEMS, INCLUDING SURFACE AND GROUNDWATER, TREATMENT AND DISTRIBUTION, WASTEWATER COLLECTION AND TREATMENT, WATER REUSE, AND WATER DEMAND ANALYSIS; WATER EXCESS MANAGEMENT, INCLUDING FLOODPLAIN HYDROLOGY AND HYDRAULICS, URBAN STORMWATER, AND FLOOD CONTROL SYSTEMS; THE FUTURE IMPACT OF GLOBAL CLIMATE CHANGE, WATER RESOURCES DEFICIT MANAGEMENT, DECISION SUPPORT SYSTEMS, AND MORE; DISCUSSIONS OF STATE-OF-THE-ART COMPUTER MODELS FOR WATER RESOURCES. FOR AUTHORITATIVE INFORMATION THAT RANGES FROM DEFINITIONS AND METHODOLOGIES TO GUIDELINES AND REGULATIONS--FROM THE GLOBAL TO THE SPECIFIC--THE WATER RESOURCES HANDBOOK IS THE FIRST PLACE TO LOOK--NOW, AND FOR YEARS TO COME.

WATER TRANSMISSION AND DISTRIBUTION - 2011-01-12

APPLIED HYDROLOGY, 2ND EDITION - VEN CHOW 2013-08-05

THE FIRST REVISION IN MORE THAN 20 YEARS OF THE RENOWNED ENGINEERING HYDROLOGY TEXT APPLIED HYDROLOGY, SECOND EDITION RETAINS THE SUCCESSFUL OUTLINE OF THIS CLASSIC TEXT WHILE ADDING NEW MATERIAL ON PHYSICAL HYDROLOGIC MODELING TO COVER ADVANCES IN THAT FIELD OF HYDROLOGY. NEW COVERAGE INCLUDES THE ADVANCES IN SOLVING HYDROLOGY PROBLEMS THROUGH THE USE OF NEW METHODOLOGIES SUCH AS GIS TECHNOLOGY. THE BOOK IS DIVIDED INTO THREE PARTS: HYDROLOGIC PROCESSES; HYDROLOGIC ANALYSIS; AND HYDROLOGIC DESIGN, WHERE MOST OF THE REVISIONS OCCUR. APPLIED HYDROLOGY, SECOND EDITION EMPHASIZES A UNIQUE, FUNDAMENTAL APPROACH TO HYDROLOGY, PROVIDING THE BASIS FOR UNDERSTANDING METHODOLOGIES AND SOFTWARE USED IN APPLIED HYDROLOGY INCLUDES A WEALTH OF NEW PROBLEMS, BOTH WORKED OUT EXAMPLES AND END-OF-CHAPTER PROBLEMS CONTAINS SPECIAL TOPICS, SUCH AS THE HYDROLOGY OF ARID AND SEMI-ARID REGIONS AND HYDROLOGY OF CLIMATE CHANGE INCORPORATES THE VERY LATEST METHODOLOGIES FOR SOLVING HYDROLOGY PROBLEMS, INCLUDING RADAR RAINFALL (NEXRAD), GIS, AND OTHERS OFFERS A COMPREHENSIVE APPROACH TO HYDROLOGIC DESIGN, COVERING THE HYDROLOGY OF FLOODPLAIN ANALYSIS AND WATER SUPPLY ANALYSIS

URBAN STORMWATER HYDROLOGY - OSMAN A. AKAN 1993-02-28

THIS BOOK AND SOFTWARE PACKAGE PROVIDES A CONCISE, PRACTICAL GUIDE FOR THOSE INVOLVED IN STUDYING, PLANNING, AND DESIGNING URBAN STORMWATER MANAGEMENT PRACTICES. THE EMPHASIS IS ON ENGINEERING CALCULATIONS RATHER THAN THEORY. MANY FACETS OF STORMWATER MANAGEMENT, FROM RAINFALL ANALYSIS AND DESIGN STORM SELECTION PROCEDURES TO RUNOFF CALCULATIONS AND THE EVALUATION OF WET PONDS FOR LONG-TERM, EFFICIENT WATER QUALITY CONTROL. THE BOOK PRESENTS BROADLY USED CONVENTIONAL METHODS AND INNOVATIVE TECHNIQUES THAT ARE IN LINE WITH CURRENT TRENDS AND NEEDS. THE BOOK ALSO INCLUDES THE SOIL CONSERVATION SERVICE'S TR-20 COMPUTER SOFTWARE AND A NEW EASY-TO-FOLLOW USER'S GUIDE. FROM THE PREFACE THERE HAS BEEN MUCH INTEREST IN URBAN STORMWATER HYDROLOGY DURING THE PAST TWO DECADES DUE TO THE WIDESPREAD RECOGNITION OF THE ADVERSE EFFECTS OF URBANIZATION ON STORMWATER RUNOFF. DURING THIS PERIOD, MANY INDIVIDUALS AND ORGANIZATIONS DEVELOPED INNOVATIVE TECHNIQUES TO ESTIMATE AND CONTROL THE QUANTITY AND THE WATER QUALITY OF URBAN STORMWATER RUNOFF.

HYDROLOGY AND HYDRAULIC SYSTEMS - RAM S. GUPTA 2001

WATER RESOURCES ENGINEERING, 2ND EDITION - LARRY W. MAYS 2011-07-01

MARKET_Desc: ENVIRONMENTAL ENGINEERS, STUDENTS AND INSTRUCTORS OF ENVIRONMENTAL ENGINEERING SPECIAL FEATURES: · PROVIDES THE MOST UP-TO-DATE INFORMATION ALONG WITH A REMARKABLE RANGE AND DEPTH OF COVERAGE· PRESENTS A NEW CHAPTER ON WATER RESOURCES SUSTAINABILITY· INCLUDES A NEW CHAPTER ON WATER RESOURCES MANAGEMENT FOR SUSTAINABILITY· INTEGRATES NEW AND UPDATED GRAPHICS THROUGHOUT THE CHAPTERS TO REINFORCE IMPORTANT CONCEPTS· ADDS ADDITIONAL END-OF-CHAPTER QUESTIONS TO BUILD UNDERSTANDING ABOUT THE BOOK: ENVIRONMENTAL ENGINEERS CONTINUE TO RELY ON THE LEADING RESOURCE IN THE FIELD ON THE PRINCIPLES AND PRACTICE OF WATER RESOURCES ENGINEERING. THE SECOND EDITION NOW PROVIDES THEM WITH THE MOST UP-TO-DATE INFORMATION ALONG WITH A REMARKABLE RANGE AND DEPTH OF COVERAGE. TWO NEW CHAPTERS HAVE BEEN ADDED THAT EXPLORE WATER RESOURCES SUSTAINABILITY AND WATER RESOURCES MANAGEMENT FOR SUSTAINABILITY. NEW AND UPDATED GRAPHICS HAVE ALSO BEEN INTEGRATED THROUGHOUT THE CHAPTERS TO REINFORCE IMPORTANT CONCEPTS. ADDITIONAL END-OF-CHAPTER QUESTIONS HAVE BEEN ADDED AS WELL TO BUILD UNDERSTANDING. ENVIRONMENTAL ENGINEERS WILL REFER TO THIS TEXT THROUGHOUT THEIR CAREERS.

WATER DISTRIBUTION SYSTEM HANDBOOK - LARRY W. MAYS 2000

PROVIDING HISTORICAL; PRESENT DAY; AND FUTURE PERSPECTIVES; THIS BOOK EXPLORES EVERY FACET OF THE HYDRAULICS OF PRESSURIZED FLOW; PIPING DESIGN AND PIPELINE SYSTEMS; STORAGE ISSUES; RELIABILITY ANALYSIS AND DISTRIBUTION; AND MORE. --

GEOGRAPHIC INFORMATION SYSTEMS IN WATER RESOURCES ENGINEERING - LYNN E. JOHNSON 2016-04-19

STATE-OF-THE-ART GIS SPATIAL DATA MANAGEMENT AND ANALYSIS TOOLS ARE REVOLUTIONIZING THE FIELD OF WATER RESOURCE ENGINEERING. FAMILIARITY WITH THESE TECHNOLOGIES IS NOW A PREREQUISITE FOR SUCCESS IN ENGINEERS' AND PLANNERS' EFFORTS TO CREATE A RELIABLE INFRASTRUCTURE. GIS IN WATER RESOURCE ENGINEERING PRESENTS A REVIEW OF THE CONCEPTS AND APPLICATION URBAN WATER CYCLE PROCESSES AND INTERACTIONS - JIRI MARSALEK 2014-04-21

EFFECTIVE MANAGEMENT OF URBAN WATER SHOULD BE BASED ON A SCIENTIFIC UNDERSTANDING OF THE IMPACT OF HUMAN ACTIVITY ON BOTH THE URBAN HYDROLOGICAL CYCLE - INCLUDING ITS PROCESSES AND INTERACTIONS - AND THE ENVIRONMENT ITSELF. SUCH ANTHROPOGENIC IMPACTS, WHICH VARY BROADLY IN TIME AND SPACE, NEED TO BE QUANTIFIED WITH RESPECT TO LOCAL CLIMATE, URBAN D

EVOLUTION OF WATER SUPPLY THROUGH THE MILLENNIA - ANDREAS N. ANGELAKIS 2012-04-14

EVOLUTION OF WATER SUPPLY THROUGH THE MILLENNIA PRESENTS THE MAJOR ACHIEVEMENTS IN THE SCIENTIFIC FIELDS OF WATER SUPPLY TECHNOLOGIES AND MANAGEMENT THROUGHOUT THE MILLENNIA. IT PROVIDES VALUABLE INSIGHTS INTO ANCIENT WATER SUPPLY TECHNOLOGIES WITH THEIR APPARENT CHARACTERISTICS OF DURABILITY, ADAPTABILITY TO THE ENVIRONMENT, AND SUSTAINABILITY. A COMPARISON OF THE WATER TECHNOLOGICAL DEVELOPMENTS IN SEVERAL CIVILIZATIONS IS UNDERTAKEN. THESE TECHNOLOGIES ARE THE UNDERPINNING OF MODERN ACHIEVEMENTS IN WATER ENGINEERING AND MANAGEMENT PRACTICES. IT IS THE BEST PROOF THAT "THE PAST IS THE KEY FOR THE FUTURE." RAPID TECHNOLOGICAL PROGRESS IN THE TWENTIETH CENTURY CREATED A DISREGARD FOR PAST WATER TECHNOLOGIES THAT WERE CONSIDERED TO BE FAR BEHIND THE PRESENT ONES. THERE ARE A GREAT DEAL OF UNRESOLVED PROBLEMS RELATED TO THE MANAGEMENT PRINCIPLES, SUCH AS THE DECENTRALIZATION OF THE PROCESSES, THE DURABILITY OF THE WATER PROJECTS, THE COST EFFECTIVENESS, AND SUSTAINABILITY ISSUES SUCH AS PROTECTION FROM FLOODS AND DROUGHTS. IN THE DEVELOPING WORLD, SUCH PROBLEMS WERE INTENSIFIED TO AN UNPRECEDENTED DEGREE. MOREOVER, NEW PROBLEMS HAVE ARISEN SUCH AS THE CONTAMINATION OF SURFACE AND GROUNDWATER. NATURALLY, INTENSIFICATION OF UNRESOLVED PROBLEMS LED SOCIETIES TO REVISIT THE PAST AND TO REINVESTIGATE THE SUCCESSFUL PAST ACHIEVEMENTS. TO THEIR SURPRISE, THOSE WHO ATTEMPTED THIS RETROSPECT, BASED ON ARCHAEOLOGICAL, HISTORICAL, AND TECHNICAL EVIDENCE WERE IMPRESSED BY TWO THINGS: THE SIMILARITY OF PRINCIPLES WITH PRESENT ONES AND THE ADVANCED LEVEL OF WATER ENGINEERING AND MANAGEMENT PRACTICES. EVOLUTION OF WATER SUPPLY THROUGH THE MILLENNIA IS INTENDED FOR ENGINEERS IN WATER RESOURCES COMPANIES, HYDRAULIC DESIGN COMPANIES, AND WATER INSTITUTES. IT CAN BE USED FOR ALL COURSES RELATED TO WATER RESOURCES. AUTHORS: ANDREAS N. ANGELAKIS, INSTITUTE OF IRAKLION, NATIONAL FOUNDATION FOR AGRICULTURAL RESEARCH (N.AG.RE.F.), GREECE, LARRY W. MAYS, SCHOOL OF SUSTAINABLE ENGINEERING AND THE BUILT ENVIRONMENT, ARIZONA STATE UNIVERSITY, USA, DEMETRIS KOUTSOYIANNIS, SCHOOL OF CIVIL ENGINEERING, NATIONAL TECHNICAL UNIVERSITY OF ATHENS, GREECE, NIKOS MANASSIS, SCHOOL OF CIVIL ENGINEERING, NATIONAL TECHNICAL UNIVERSITY OF ATHENS, GREECE.

GROUNDWATER HYDROLOGY - DAVID KEITH TODD 1959

TIPON - KENNETH R. WRIGHT 2006

WRIGHT TAKES READERS ON A TOUR OF TIPON'S CANALS, PLAZAS, AQUEDUCTS, AND FOUNTAINS--INFRASTRUCTURE THAT TRANSFORMED A REMOTE MOUNTAINSIDE INTO A TRUE ENGINEERING MARVEL.

INTRODUCTION TO HYDROLOGY - WARREN VIESSMAN 1996

THIS TEXT GIVES A COMPREHENSIVE LOOK AT THE FIELD OF HYDROLOGY AND THE CURRENT ISSUES AFFECTING THE DISCIPLINE CURRENTLY. SIX PARTS PROVIDE IN-DEPTH COVERAGE OF THE HYDROLOGIC CYCLE, HYDROLOGIC MEASUREMENT AND MONITORING, SURFACE WATER HYDROLOGY, GROUNDWATER HYDROLOGY, HYDROLOGIC MODELLING AND STATISTICAL METHODS. THE INCLUSION OF WATER QUALITY AND SOCIAL DIMENSIONS RELATES SCIENCE TO PUBLIC POLICY.

WATER RESOURCES SUSTAINABILITY - LARRY W. MAYS 2007

PROVIDING CLEAN WATER TO EARTH'S RAPIDLY GROWING HUMAN POPULATION IS ONE THE MAJOR ISSUES OF THE 21ST CENTURY. THE

CLIMATIC EFFECTS OF GLOBAL WARMING ON WATER SUPPLY HAS MADE THIS A HOT-BUTTON ISSUE.

WATER-RESOURCES ENGINEERING - DAVID A. CHIN 2014

FOR A SENIOR- OR GRADUATE-LEVEL FIRST COURSE IN WATER-RESOURCES ENGINEERING OFFERED IN CIVIL AND ENVIRONMENTAL ENGINEERING

DEGREE PROGRAMS. A PREREQUISITE COURSE IN FLUID MECHANICS AND CALCULUS UP TO DIFFERENTIAL EQUATIONS IS ASSUMED. WATER-RESOURCES ENGINEERING PROVIDES COMPREHENSIVE COVERAGE OF HYDRAULICS, HYDROLOGY, AND WATER-RESOURCES PLANNING AND MANAGEMENT. PRESENTED FROM FIRST PRINCIPLES, THE MATERIAL IS RIGOROUS, RELEVANT TO THE PRACTICE OF WATER RESOURCES ENGINEERING, AND REINFORCED BY DETAILED PRESENTATIONS OF DESIGN APPLICATIONS.