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An Introduction to Operating Machinery for Lift Gates for Dams and
Locks Water Control Gates: Introduction; Chapter 2 Gate Descriptions
and Operating Systems; Chapter 3 Gate Operation; Chapter 4
Maintenance; Chapter 5 Inspection Overview and Preparation; Chapter 6
Visual Inspection of Structural Aspects of Gates; Chapter 7 Visual
Inspection of Gate Operating Systems; Chapter 8 Gate System
Performance Testing; Chapter 9 Evaluation; Appendix A Inspection

Checklists; Appendix B Gate and Operating Equipment Inspection and Testing Procedures; Appendix C Crane Inspection Activities; Appendix D Curvilinear Pressures; Appendix E PFM Examples The Navy Electricity and Electronics Training Series: Module 13 Introduction To Number Systems And Logic An Introduction to Sector Gates for Storm Protection and Locks Thucydides Translated Into English with Introduction, Marginal Analysis, and Index Stony the Road How to Prevent the Next Pandemic A Chronological and Geographical Introduction to the Life of Christ ... Translated, with Additional Notes, by Maurice J. Evans ... With Map ... and Plan of Jerusalem Introduction to Digital Electronics, 1/e The Swedenborg Concordance To Make a Poet Black Introduction to Computing Systems Essays of John Dryden: Introduction ; List of Dryden's works ; Epistle dedicatory of the rival ladies (1664) ; Preface to *Annus Mirabilis* (1667) ; Of dramatic poesy, an essay (1668) ; Prologue to *Secret Love or the Maiden Queen* (1668) ; Defence of an essay of dramatic poesy (1668) ; Preface to *An Evening's Love or The Mock Astrologer* (1671) ; Of heroic plays, an essay (1672) ; Epilogue to the second part of the *Conquest of Granada* (1672) ; Defence of the epilogue (1672) ; The author's apology for heroic poetry and poetic license (1677) ; Preface to *All for Love* (1678) ; Preface to *Troilus and Cressida*, containing the grounds of criticism in tragedy (1679) ; Preface to *Ovid's Epistles* (1680) ; Dedication of the *Spanish Friar* (1681) ; Preface to *Sylvæ* (The second miscellany) (1685) ; Preface to *Albion and Albanus* (an opera) (1685) ; Notes Introduction. List of Dryden's works. Epistle dedicatory of the Rival ladies. Preface to *Annus mirabilis*. Of dramatic poesy, an essay. Prologue to *Secret love or The maiden queen*. Defence of an Essay of dramatic poesy. Preface to an *Evening's love*. Of heroic plays, an essay. Epilogue to the second part of the *Conquest of Granada*. Defence of the epilogue. The author's apology for heroic poetry and poetic license. Preface to *All for love*. Preface to *Troilus and Cressida*. Preface to *Ovid's Epistles*. Dedication of the *Spanish friar*. Preface to *Sylvæ* Preface to *Albion and Albanus*. Notes Design of Hydraulic Gates, 2nd Edition

INTRODUCTION TO ELECTRONICS, SIXTH EDITION provides your students with a broad overview of both the linear and digital fields of electronics while also providing the basics so your students can understand the fundamentals of electronics. This book is intended for first year students to stimulate their interest in electronics, whether they are in high school or college, and will provide them with a fundamental background in electronics that they need to succeed in today's increasingly digital world. The sixth edition continues to expose students to the broad field of electronics at a level they can easily understand. Chapters are brief and focused and frequent examples are used to show math and formulas in use. Each chapter builds on the previous chapter to allow your students to grow with the knowledge necessary to continue. There are many new problems and review questions and Internet applications that enhance your students' learning and retention of the material. In addition, new photographs keep them up to date with changes in the field of electronics and a new topic on Programmable Interface Controllers (PICs) is included as well. INTRODUCTION TO ELECTRONICS, SIXTH EDITION is written to allow all of your students to fully comprehend the fundamentals of electronics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompany: 9780766816985 . This Laboratory Manual is a valuable tool designed to enhance your understanding of basic electricity and electronics. Hands-on activities, objectives, materials lists, step-by-step procedures, illustrations, and review questions help you problem-solve for a deeper understanding of topics. This book is based on the premise that starting with a high level programming language is not the best approach. The reason most students do not understand a programming language when they take it as a first course is because they are forced to memorize technical details. They do not understand the basic

underpinnings of how a computer works. The result of this thought is the motivated bottom-up approach found in Patt/Patel's Introduction To Computing Systems. This text starts with the logic structures and architecture of a computer and moves up to the application software that runs on it. The book covers in turn: switch level abstraction of a MOS Transistor, Logic Gates, latches, logic structures (MUX, Decoder, Adder, gated latches), finally culminating in an implementation of memory. From there, the book moves on to the Von Neumann model of execution, then a simple computer (the LC-2), machine language programming, assembly language, assemblers and then assembly language programming of the LC-2. The book then moves to the high level language C, recursion, and finally elementary data structures. The book establishes a foundation that every subsequent course in the computer science or computer engineering curriculum can benefit from and build on.

Lock Gates and Other Closures in Hydraulic Projects shares the authors practical experience in design, engineering, management and other relevant aspects with regard to hydraulic gate projects. This valuable reference on the design, construction, operation and maintenance of navigation lock gates, movable closures of weirs, flood barriers, and gates for harbor and shipyard docks provides systematic coverage on all structural types of hydraulic gates, the selection of gate types, and their advantages and disadvantages. The discussion includes the latest views in new domains, such as environmental impact of hydraulic gate projects, sustainability assessments, relation with the issues of global climate change, handling accidents and calamities, and the bases of asset management. Heavily illustrated, this reference provides a generous amount of case studies based on the author's own and their colleagues' experiences from recent projects in Europe, America and other continents. Presents extensive coverage of the operational profiles of hydraulic closures, including gates in navigation locks, movable closures on river weirs, closures of flood barriers, spillway closures and valves, and more Outlines the different structural types of hydraulic gates, including miter gates, vertical lift gates, flap and hinged crest gates, radial gates, rolling and barge gates, sector gates and many other Clearly outlines the selection

process for gates for navigation locks, river weirs, flood barriers, hydroelectric plants, shipyard docks and other hydraulic structures Provides comprehensive discussion of design loads and other actions to which hydraulic gates may be subjected during their service life, followed by an overview of analysis methods and tools Addresses the newest challenges and concerns in hydraulic gate projects, such as environmental impact of hydraulic gate projects, risk-based design, sustainability issues, handling accidents and calamities, and gate maintenance in view of asset management Presents the experiences from many recent projects in Europe and America, including the rolling gates in large European sea locks, gates in the Panama Canal new locks, flood barriers in New Orleans and the Netherlands Do you want to know what made Bill Gates "The Richest Man in the World"? This book offers an introduction to Gates, his business success and the lessons that we can learn from him. It is not a text book nor a biography, but more of a cheat sheet for reading on the bus or in the bathroom, so that you can pick out the most significant points without having to carry around a bag of weighty tomes. You can read it all in one sitting, or look up specific case studies as and when you are looking for inspiration or direction. The key lessons outlined here are drawn from interviews Gates has given over the past 40 years, from the numerous blogs and articles written about him, and, most importantly, from the successes and failures on his road to the "Richest Man in the World". Introductory technical guidance for civil engineers interested in sector gates for flood protection and locks. Here is what is discussed: 1. GENERAL DESCRIPTION 2. OPERATING SYSTEM DESCRIPTIONS AND SELECTION CRITERIA 3. DESIGN CONSIDERATIONS AND CRITERIA 4. OPERATING PROCEDURES AND CONTROLS 5. SPECIAL DESIGN CONSIDERATIONS 6. PINTLE AND HINGE DESIGN. Get energized about your future with INTRODUCTION TO BASIC ELECTRICITY AND ELECTRONICS TECHNOLOGY, 1st Edition, the easy-to-read resource on electricity and electronics! Emphasizing teamwork and critical thinking, this entry-level book helps you understand technical vocabulary and technologies while imparting the skills necessary to read schematic diagrams, apply problem-solving

formulas, and follow troubleshooting processes. Topics address all key fundamentals, including direct and alternating current, semiconductor devices, linear circuits, digital circuits, printed circuit board fabrication, test equipment, and more. Practical, job-based discussions delve into calculator applications, hazardous materials handling, general safety protocols, using power and hand tools, electronics software, professional certifications, and the many career options for technicians. Accompanied by a Lab Manual for hands-on practice, **INTRODUCTION TO BASIC ELECTRICITY AND ELECTRONICS TECHNOLOGY**, 1st Edition is available in a convenient eBook format and with a variety of interactive supplements designed to make learning easier. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Designed to provide a comprehensive and practical insight to the basic concepts of Digital Electronics, this book brings together information on theory, operational aspects and practical applications of digital circuits in a succinct style that is suitable for undergraduate students. Spread across 16 chapters, the book walks the student through the first principles and the Karnaugh mapping reduction technique before proceeding to elaborate on the design and implementation of complex digital circuits. With ample examples and exercises to reinforce theory and an exclusive chapter allotted for electronic experiments, this textbook is an ideal classroom companion for students. “Stony the Road presents a bracing alternative to Trump-era white nationalism. . . . In our current politics we recognize African-American history—the spot under our country’s rug where the terrorism and injustices of white supremacy are habitually swept. Stony the Road lifts the rug.” —Nell Irvin Painter, *New York Times Book Review* A profound new rendering of the struggle by African-Americans for equality after the Civil War and the violent counter-revolution that resubjugated them, by the bestselling author of *The Black Church*. The abolition of slavery in the aftermath of the Civil War is a familiar story, as is the civil rights revolution that transformed the nation after World War II. But the century in between remains a mystery: if emancipation sparked "a new birth of freedom" in Lincoln's America, why was it necessary to march in Martin Luther King, Jr.'s America? In this new

book, Henry Louis Gates, Jr., one of our leading chroniclers of the African-American experience, seeks to answer that question in a history that moves from the Reconstruction Era to the "nadir" of the African-American experience under Jim Crow, through to World War I and the Harlem Renaissance. Through his close reading of the visual culture of this tragic era, Gates reveals the many faces of Jim Crow and how, together, they reinforced a stark color line between white and black Americans. Bringing a lifetime of wisdom to bear as a scholar, filmmaker, and public intellectual, Gates uncovers the roots of structural racism in our own time, while showing how African Americans after slavery combatted it by articulating a vision of a "New Negro" to force the nation to recognize their humanity and unique contributions to America as it hurtled toward the modern age. The story Gates tells begins with great hope, with the Emancipation Proclamation, Union victory, and the liberation of nearly 4 million enslaved African-Americans. Until 1877, the federal government, goaded by the activism of Frederick Douglass and many others, tried at various turns to sustain their new rights. But the terror unleashed by white paramilitary groups in the former Confederacy, combined with deteriorating economic conditions and a loss of Northern will, restored "home rule" to the South. The retreat from Reconstruction was followed by one of the most violent periods in our history, with thousands of black people murdered or lynched and many more afflicted by the degrading impositions of Jim Crow segregation. An essential tour through one of America's fundamental historical tragedies, *Stony the Road* is also a story of heroic resistance, as figures such as W. E. B. Du Bois and Ida B. Wells fought to create a counter-narrative, and culture, inside the lion's mouth. As sobering as this tale is, it also has within it the inspiration that comes with encountering the hopes our ancestors advanced against the longest odds. Now in its fourth edition, *Introduction to Electronics* continues to offer its readers a complete introduction to basic electricity/electronics principles with emphasis on hands-on application of theory. Expanded discussion of Capacitive AC, Inductive AC, and Resonance Circuits is just the beginning! For the first time, MultiSIM® problems have been integrated into *Introduction to Electronics*, providing even greater

opportunities to apply basic electronics principles and develop critical thinking skills by building, analyzing, and troubleshooting DC and AC circuits. In addition, this electron flow, algebra-based electricity/electronics primer now includes coverage of topics such as surface mount components, Karnaugh maps, and microcontrollers that are becoming increasingly important in today's world. Introduction to Electronics is the ideal choice for readers with no prior electronics experience who seek a basic background in DC and AC circuits that aligns closely with today's business and industry requirements. Objectives are clearly stated at the beginning of each brief, yet highly focused chapter to focus attention on key points. In addition, all-new photographs are used throughout the book and detailed, step-by-step examples are included to show how math and formulas are used. Chapter-end review questions and summaries ensure mastery, while careers are profiled throughout Introduction to Electronics, 4th Edition to stimulate the reader's interest in further study and/or potential employment in electronics or related fields. The first translation and publication of sixteen submissions to the notorious eighteenth-century Bordeaux essay contest on the cause of black skin—an indispensable chronicle of the rise of scientifically based, anti-Black racism. In 1739 Bordeaux's Royal Academy of Sciences announced a contest for the best essay on the sources of "blackness." What is the physical cause of blackness and African hair, and what is the cause of Black degeneration, the contest announcement asked. Sixteen essays, written in French and Latin, were ultimately dispatched from all over Europe. The authors ranged from naturalists to physicians, theologians to amateur savants. Documented on each page are European ideas about who is Black and why. Looming behind these essays is the fact that some four million Africans had been kidnapped and shipped across the Atlantic by the time the contest was announced. The essays themselves represent a broad range of opinions. Some affirm that Africans had fallen from God's grace; others that blackness had resulted from a brutal climate; still others emphasized the anatomical specificity of Africans. All the submissions nonetheless circulate around a common theme: the search for a scientific understanding of the new concept of race. More

important, they provide an indispensable record of the Enlightenment-era thinking that normalized the sale and enslavement of Black human beings. These never previously published documents survived the centuries tucked away in Bordeaux's municipal library. Translated into English and accompanied by a detailed introduction and headnotes written by Henry Louis Gates, Jr., and Andrew Curran, each essay included in this volume lays bare the origins of anti-Black racism and colorism in the West. This easy to understand text provides students with specific knowledge and hands-on skills required by industry for entry-level employment in electronics. Need-to-know competencies such as use of test equipment, basics of troubleshooting and basic circuit operation are emphasized. Safety precautions, expanded career opportunities and calculator use are featured. The review questions require use of basic formulas.

ALSO AVAILABLE
Laboratory Manual, ISBN: 0-8273-8558-7
INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPORT TO ORDER
Instructor's Guide, ISBN: 0-8273-6790-2 (Keywords: Survey Electronics)

Introductory technical guidance for mechanical and civil engineers interested in operating machinery for lift gates for dams and locks. Here is what is discussed:

1. GENERAL DESCRIPTION AND APPLICATION
2. VERTICAL GATES FOR NAVIGATION LOCKS
3. VERTICAL GATES FOR WATER REGULATING AND PROTECTION STRUCTURES
4. OPERATING EQUIPMENT FOR VERTICAL LIFT GATES
5. LIFT GATE DESIGN COMPONENTS
6. LIFT GATE DESIGN CONSIDERATIONS AND CRITERIA
7. CONTROL SYSTEM CONSIDERATIONS.

A thought-provoking and wide-ranging exploration of machine learning and the race to build computer intelligences as flexible as our own. In the world's top research labs and universities, the race is on to invent the ultimate learning algorithm: one capable of discovering any knowledge from data, and doing anything we want, before we even ask. In *The Master Algorithm*, Pedro Domingos lifts the veil to give us a peek inside the learning machines that power Google, Amazon, and your smartphone. He assembles a blueprint for the future universal learner--the Master Algorithm--and discusses what it will mean for business, science, and society. If data-ism is today's philosophy, this book is its bible. Revised

and updated, this second edition of Design of Hydraulic Gates maintains the same goal as the original: to be used as a textbook and a manual of design of gates, presenting the main aspects of design, manufacture, installation and operation of hydraulic gates, while introducing new products, technologies and calculation procedures. This edition included new chapters on intake gates and trashrack design, highlighting the aspects of safety, operational and maintenance procedures. To improve the strength against structural failure of intake trashracks, the author proposes a series of rigid calculation assumptions, design parameters and manufacturing procedures, which will certainly result in safer trashracks. Some 340 drawings and photographs, 82 tables, 107 references and 23 worked examples help the reader to understand the basic concepts and calculation methods presented.

An Elementary Guide to the State of the Art in the Quantum Information Field Introduction to Quantum Physics and Information Processing guides beginners in understanding the current state of research in the novel, interdisciplinary area of quantum information. Suitable for undergraduate and beginning graduate students in physics, mathematics, or eng "Introduction to Embedded System Design Using Field Programmable Gate Arrays" provides a starting point for the use of field programmable gate arrays in the design of embedded systems. The text considers a hypothetical robot controller as an embedded application and weaves around it related concepts of FPGA-based digital design. The book details: use of FPGA vis-à-vis general purpose processor and microcontroller; design using Verilog hardware description language; digital design synthesis using Verilog and Xilinx® Spartan™ 3 FPGA; FPGA-based embedded processors and peripherals; overview of serial data communications and signal conditioning using FPGA; FPGA-based motor drive controllers; and prototyping digital systems using FPGA. The book is a good introductory text for FPGA-based design for both students and digital systems designers. Its end-of-chapter exercises and frequent use of example can be used for teaching or for self-study. Digital technology has become ubiquitous in our modern society, to the extent that we risk of being left behind and becoming cut-off if we do not adopt it! This KES aims to show why digital technology is becoming so appealing,

what digital data are, what operations can be performed on them, and how digital logic theory can be used to systematically formulate solutions to several practical problems. As we become immersed in the 0's and 1's of a digital world, knowing the differences between the way our smart digital companions work and how we humans interpret information is of high relevance today, irrespective of the wake of life we find ourselves in with respect to digital technology. Customers are increasingly asked to understand digital terms like bits, bytes, GB, GHz and TB when selecting their next laptop or smartphone, and for anyone aspiring to get into this rapidly evolving environment as a professional, the basics and principles are a must. The underlying digital principles are also found to be a useful asset for learning computer programming, as it enables to understand the machine level operations of the computer, and hence equips one to understand unexpected behaviors of a piece of code and in troubleshooting bugs. In this clear-eyed, candid, and ultimately reassuring Introductory technical guidance for civil engineers interested in sector gates for flood protection and locks. Here is what is discussed: 1. GENERAL DESCRIPTION 2. OPERATING SYSTEM DESCRIPTIONS AND SELECTION CRITERIA 3. DESIGN CONSIDERATIONS AND CRITERIA 4. OPERATING PROCEDURES AND CONTROLS 5. SPECIAL DESIGN CONSIDERATIONS 6. PINTLE AND HINGE DESIGN. Introductory technical guidance for mechanical and civil engineers interested in operating machinery for lift gates for dams and locks. Here is what is discussed: 1. GENERAL DESCRIPTION AND APPLICATION 2. VERTICAL GATES FOR NAVIGATION LOCKS 3. VERTICAL GATES FOR WATER REGULATING AND PROTECTION STRUCTURES 4. OPERATING EQUIPMENT FOR VERTICAL LIFT GATES 5. LIFT GATE DESIGN COMPONENTS 6. LIFT GATE DESIGN CONSIDERATIONS AND CRITERIA 7. CONTROL SYSTEM CONSIDERATIONS. This book is about God answering the prayer of Pastor Deans request for a topic for his next sermon, and not only did God give him the title, but he also gave him a vision of who his son is through the same title, The GATE, to show the world that the answer to everything we need is in Jesus, Gods answer to eternity. #1

NEW YORK TIMES BEST SELLER • In this urgent, authoritative book, Bill Gates sets out a wide-ranging, practical—and accessible—plan for how the world can get to zero greenhouse gas emissions in time to avoid a climate catastrophe. Bill Gates has spent a decade investigating the causes and effects of climate change. With the help of experts in the fields of physics, chemistry, biology, engineering, political science, and finance, he has focused on what must be done in order to stop the planet's slide to certain environmental disaster. In this book, he not only explains why we need to work toward net-zero emissions of greenhouse gases, but also details what we need to do to achieve this profoundly important goal. He gives us a clear-eyed description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions—suggesting not only policies that governments should adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable in this crucial enterprise. As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach.

"To understand the computer, the authors introduce the LC-3 and provide the LC-3 Simulator to give students hands-on access for testing what they learn. To develop their understanding of programming and programming methodology, they use the C programming language. The book takes a "motivated" bottom-up approach, where the students first get exposed to the big picture and then start at the bottom and build their knowledge bottom-up. Within each smaller unit, the same motivated bottom-up approach is followed. Every step of the way, students learn new things, building on what they already know. The authors feel that this approach encourages deeper understanding and downplays the need for memorizing. Students develop a greater breadth of understanding, since they see how the various parts of the computer

fit together."--Publisher's description. Introduction to Computing Systems: From bits & gates to C & beyond, now in its second edition, is designed to give students a better understanding of computing early in their college careers in order to give them a stronger foundation for later courses. The book is in two parts: (a) the underlying structure of a computer, and (b) programming in a high level language and programming methodology. To understand the computer, the authors introduce the LC-3 and provide the LC-3 Simulator to give students hands-on access for testing what they learn. To develop their understanding of programming and programming methodology, they use the C programming language. The book takes a "motivated" bottom-up approach, where the students first get exposed to the big picture and then start at the bottom and build their knowledge bottom-up. Within each smaller unit, the same motivated bottom-up approach is followed. Every step of the way, students learn new things, building on what they already know. The authors feel that this approach encourages deeper understanding and downplays the need for memorizing. Students develop a greater breadth of understanding, since they see how the various parts of the computer fit together.

An NYRB Classics Original A humble clerk and his loving wife scrape out a quiet existence on the margins of Tokyo. Resigned, following years of exile and misfortune, to the bitter consequences of having married without their families' consent, and unable to have children of their own, S?suke and Oyone find the delicate equilibrium of their household upset by a new obligation to meet the educational expenses of S?suke's brash younger brother. While an unlikely new friendship appears to offer a way out of this bind, it also soon threatens to dredge up a past that could once again force them to flee the capital. Desperate and torn, S?suke finally resolves to travel to a remote Zen mountain monastery to see if perhaps there, through meditation, he can find a way out of his predicament. This moving and deceptively simple story, a melancholy tale shot through with glimmers of joy, beauty, and gentle wit, is an understated masterpiece by one of Japan's greatest writers. At the end of his life, Natsume S?seki declared *The Gate*, originally published in 1910, to be his favorite among all his novels. This new translation captures the

oblique grace of the original while correcting numerous errors and omissions that marred the first English version. From the author of the #1 New York Times best seller *How to Avoid a Climate Disaster: The COVID-19 pandemic isn't over, but even as governments around the world strive to put it behind us, they're also starting to talk about what happens next. How can we prevent a new pandemic from killing millions of people and devastating the global economy? Can we even hope to accomplish this? Bill Gates believes the answer is yes, and in this book he lays out clearly and convincingly what the world should have learned from COVID-19 and what all of us can do to ward off another disaster like it. Relying on the shared knowledge of the world's foremost experts and on his own experience of combating fatal diseases through the Gates Foundation, he first helps us understand the science of infectious diseases. Then he shows us how the nations of the world, working in conjunction with one another and with the private sector, can not only ward off another COVID-like catastrophe but also eliminate all respiratory diseases, including the flu. Here is a clarion call—strong, comprehensive, and of the gravest importance—from one of our greatest and most effective thinkers and activists. An introduction to computer engineering for babies. Learn basic logic gates with hands on examples of buttons and an output LED. If you want to outsmart a crook, learn his tricks—Darrell Huff explains exactly how in the classic *How to Lie with Statistics*. From distorted graphs and biased samples to misleading averages, there are countless statistical dodges that lend cover to anyone with an ax to grind or a product to sell. With abundant examples and illustrations, Darrell Huff's lively and engaging primer clarifies the basic principles of statistics and explains how they're used to present information in honest and not-so-honest ways. Now even more indispensable in our data-driven world than it was when first published, *How to Lie with Statistics* is the book that generations of readers have relied on to keep from being fooled. Sponsored by the Hydropower Technical Committee of the Energy Division of ASCE; U.S. Department of Homeland Security, Federal Emergency Management Agency; Interagency Committee on Dam Safety; U.S. Army Corps of Engineers, Engineer Research and Development Center. *Water Control Gates*:*

Guidelines for Inspection and Evaluation provides information and techniques for assessing water control gates, focusing particularly on those controlling reservoirs impounded by a dam. As many dams in the United States reach or pass their 50-year design lives, water control gates and other features must be examined to determine their condition for continued reliable, safe use. This single volume covers the most common types of major water control gates used throughout the last century in the United States. Topics include: description of various water control gates and operating systems; gate operation; gate maintenance; preparing for a gate inspection; conducting visual gate and gate operating system inspections; gate system testing; and the evaluation process. Appendixes provide inspection checklists; example procedures for inspection and testing; guidelines for crane inspection; calculations for determining curvilinear water pressure on a gate face; and potential failure mode examples. The volume includes references and an extensive bibliography. This volume will help owners of dams, whether large or small, to develop a comprehensive plan to actively manage their dam gates. Hydraulic engineers, water resources managers, and emergency planning officials also will rely on this compilation as a reference for managing and maintaining water control gates.

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