By Benjamin C Kuo

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Automatic Control Systems

Stresses the theory & application of control systems with a focus on conventional analysis & design methods, state variable methods, & digital control systems.

Digital Control Systems

A complete toolkit for teaching, learning, and understanding the essential concepts of automatic control systems Edition after acclaimed edition, Automatic Control Systems has delivered up-to-date, real-world coverage designed to introduce students to the fundamentals of control systems. More than a comprehensive text, Automatic Control Systems includes innovative virtual labs that replicate physical systems and sharpen readers' problem-solving skills. The Tenth Edition introduces the concept of Control Lab, which includes two classes of experiments: SIMLab (model-based simulation) and LEGO-Lab (physical experiments using LEGO® robots). These experiments are intended to supplement, or replace, the experimental exposure of the students in a traditional undergraduate control course and will allow these students to do their work within the MATLAB® and Simulink® environment—even at home. This cost-effective approach may allow educational institutions to equip their labs with a number of LEGO test beds and maximize student access to the equipment at a fraction of the cost of currently available control system experiments. Alternatively, as a supplemental learning tool, students can take the equipment home and learn at their own pace. This new edition continues a tradition of excellence with: • A greater number of solved examples • Online labs using both LEGO MINDSTORMS® and MATLAB/SIMLab • Enhancements to the easy-to-use MATLAB GUI software (ACSYS) to allow interface with LEGO MINDSTORMS • A valuable introduction to the concept of Control Lab • A logical organization, with Chapters 1 to 3 covering all background material and Chapters 4 to 11 presenting material directly related to the subject of control • 10 online appendices, including Elementary Matrix Theory and Algebra, Control Lab, Difference Equations, and Mathematical Foundation • A full-set of PowerPoint® slides and solutions available to instructors Adopted by hundreds of universities and translated into at least nine languages, Automatic Control Systems remains the

single-best resource for students to gain a practical understanding of the subject and to prepare them for the challenges they will one day face. For practicing engineers, it represents a clear, thorough, and current self-study resource that they will turn to again and again throughout their career. LEGO and MINDSTORMS are registered trademarks of the LEGO Group MATLAB and Simulink are registered trademarks of The MathWorks, Inc.

Automatic Control Systems

Fundamentos matemáticos - Funciones de transferencia, diagramas de bloques y gráfícas de flujo de señales - Modelo matemático de sistemas físicos - Análisis de variable de estado - Estabilidad de sistemas de control lineales - Análisis de sistemas de control en el dominio del tiempo - La técnica del lugar geométrico de las raíces - Análisis en el dominio de la frecuencia - Diseño de sistemas de control - Diseño de sistemas de control en el tiempo discreto - Trazas en el domino de la frecuencia - Tabla de transformadas de Laplace - Tabla de transformadas Z.

Automatic Control Systems, Tenth Edition

This introduction to automatic control systems has been updated to reflect the increasing use of computer-aided learning and design. Aiming at a more accessible approach, this edition demonstrates the solution of complex problems with the aid of computer software; integrates several real world applications; provides a discussion of steady-state error analysis, including nonunity feedback systems; discusses circuit-realization of controller transfer functions; offers a treatment of Nyquist criterion on systems with nonminimum-phase transfer functions; explores time-domain and frequency domain designs side-by-side in one chapter; and adds a chapter on Design of Discrete-Data Control Systems.

Sistemas de control automático

Stresses the theory & application of control systems with a focus on conventional analysis & design methods, state variable methods, & digital control systems.

Automatic Control Systems

This best-selling introduction to automatic control systems has been updated to reflect the increasing use of computer-aided learning and design, and revised to feature a more accessible approach — without sacrificing depth.

Automatic Control Systems

In this first full-fledged intellectual biography of the brilliant and multifaceted Chinese scholar Wang Kuo-wei (1877-1927), Joey Bonner throws important new light on the range and course of ideas in early twentieth-century China. Coincidentally, she illuminates the nature of Wang's intimate, thirty-year personal and professional association with the well-known Chinese scholar Lo Chen-y (1866-1940) and provides a most comprehensive and compelling account of her biographee's posthumously controversial career in the years following the 1911 Revolution. Pursuing her subject across the whole spectrum of his many scholarly interests, Bonner critically examines Wang's essays on German philosophy and philosophical aesthetics; his poetry, literary criticism, and aesthetic theory; and his works on ancient Chinese history, particularly of the Shang dynasty. Insightfully relating his strenuous intellectual search in the fields of philosophy, literature, and history to his very personal quest for truth, beauty, and virtue, Bonner shows in this finely crafted book how Wang's unhappiness in later life as well as his suicide can be understood only within the context of his humanistic concerns in general and his extreme commitment in the postimperial period to the Confucian ethicoreligious tradition in particular. Without compromising the clearheaded critical detachment that characterizes her analysis of the intricacies of his thought, Bonner has produced a portrait of Wang Kuo-wei suffused with warmth and sympathetic respect.

Incremental Motion Control: Step motors and control systems, edited by B. C. Kuo

"Illustrates the analysis, behavior, and design of linear control systems using classical, modern, and advanced control techniques. Covers recent methods in system identification and optimal, digital, adaptive, robust, and fuzzy control, as well as stability, controllability, observability, pole placement, state observers, input-output decoupling, and model matching."

Discrete-data Control Systems

Papers from a flagship conference reflect the latest developments in the field, including work in such rapidly advancing areas as human-robot interaction and formal methods. Robotics: Science and Systems VIII spans a wide spectrum of robotics, bringing together contributions from researchers working on the mathematical foundations of robotics, robotics applications, and analysis of robotics systems. This volume presents the proceedings of the eighth annual Robotics: Science and Systems (RSS) conference, held in July 2012 at the University of Sydney. The contributions reflect the exciting diversity of the field, presenting the best, the newest, and the most challenging work on such topics as mechanisms, kinematics, dynamics and control, human-robot interaction and human-centered systems, distributed systems, mobile systems and mobility, manipulation, field robotics, medical robotics, biological robotics, robot perception, and estimation and learning in robotic systems. The conference and its proceedings reflect not only the tremendous growth of robotics as a discipline but also the desire in the robotics community for a flagship event at which the best of the research in the field can be presented.

Step Motors and Control Systems

This book is about power in a changing world economy. Though power is ubiquitous in the study of International Political Economy, the concept is underdeveloped in formal theoretical terms. This collection of essays analyses recent experience in East Asia to advance our theoretic understanding of state power in IPE. Over the last quarter century, no other region of the world has had a greater impact on the global distribution of economic resources and capabilities. China, with its "peaceful rise," now stands as the second largest national economy on the face of the earth; South Korea and Taiwan have become industrial powerhouses; Hong Kong and Singapore are among the world's most important financial centres; and new poles of growth have emerged in several southeast Asian countries – all while Japan, long the region's dominant market, has slipped into seemingly irreversible decline. The volume's nine essays, contributed by leading scholars in the United States, Britain and Taiwan, aim to extract relevant inferences and insights from these developments for the study of state power. All are framed by a core agenda encompassing four key clusters of questions concerning the meaning, sources, uses, and limits of power. These essays ask: What new lessons are offered for power analysis in International Political Economy?

Linear Networks and Systems

In recent years, automatic control systems have been rapidly increasing in importance in all fields of engineering. The applications of control systems cover a very wide range, from the design of precision control devices such as delicate electronic equipment to the design of massive equipment such as that used for the manufacture of steel or other industrial processes. Microprocessors have added a new dimension to the capability of control systems. New applications for automatic controls are continually being discovered. This book offers coverage of control engineering beginning with discussions of how typical control systems may be represented by block diagrams. This is accomplished by first demonstrating how to represent each component or part of a system as a simple block diagram, then explaining how these individual diagrams may be connected to form the overall block diagram, just as the actual components are connected to form the complete control system. Because actual control systems frequently contain nonlinear components, considerable emphasis is given to such components. The book goes on to show that important information concerning the basic or inherent operating characteristics of a system may be obtained from knowledge of the steady-state behavior. Continuing on in the book's coverage, readers will find information involving: how the linear differential equations that describe the operation of control systems may be solved algebraically by the use of Laplace transforms; general characteristics of transient behavior; the application of the root-locus method to the design of control systems; the use of the analog computer to simulate control systems; state-space methods; digital control systems; frequency-response methods; and system compensation.

Automatic Control

This book examines mechatronics and automatic control systems. The book covers important emerging topics in signal processing, control theory, sensors, mechanic manufacturing systems and automation. The book presents papers from the 2013 International Conference on Mechatronics and Automatic Control Systems in Hangzhou, held in China during August 10-11, 2013.

Wang Kuo-wei

"Both the professional version and student version of MATLAB and the Control Systems Toolbox enjoy wide popularity among engineering students. Authors Duane C. Hanselman and Benjamin C. Kuo present a book/software package (available in both Windows and Macintosh versions) that provides readers with ready-to-use M-files in the CSAD Toolbox for the analysis and design of linear control systems. Unlike other books and packages on MATLAB, the software provided is user-friendly and takes care of the programming so readers can devote more time to solving control systems problems." -- Back cover.

Instructor's Solutions Manual to Accompany Digital Control Systems

This book provides an introduction to the mathematics needed to model, analyze, and design feedback systems. It is an ideal textbook for undergraduate and graduate students, and is indispensable for researchers seeking a self-contained reference on control theory. Unlike most books on the subject, Feedback Systems develops transfer functions through the exponential response of a system, and is accessible across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science.

Analysis and Synthesis of Sampled Data Control Systems

Chiang Ching-kuo, son and political heir of Generalissimo Chiang Kai-shek, was born in 1910, when Chinese women, nearly all illiterate, hobbled about on bound feet and men wore pigtails as symbols of subservience to the Manchu Dynasty. In his youth Ching-kuo was a Communist and a Trotskyite, and he lived twelve years in Russia. He died in 1988 as the leader of Taiwan, a Chinese society with a flourishing consumer economy and a budding but already wild, woolly, and open democracy. He was an actor in many of the events of the last century that shaped the history of China's struggles and achievements in the modern era: the surge of nationalism among Chinese youth, the grand appeal of Marxism-Leninism, the terrible battle against fascist Japan, and the long, destructive civil war between the Nationalists and the Communists. In 1949, he fled to Taiwan with his father and two million Nationalists. He led the brutal suppression of dissent on the island and was a major player in the cold, sometimes hot war between Communist China and America. By reacting to changing economic, social, and political dynamics on Taiwan, Sino-American rapprochement, Deng Xiaoping's sweeping reforms on the mainland, and other international events, he led Taiwan on a zigzag but ultimately successful transition from dictatorship to democracy. Jay Taylor underscores the interaction of political developments on the mainland and in Taiwan and concludes that if China ever makes a similar transition, it will owe much to the Taiwan example and the Generalissimo's son.

Modern Control Engineering

This book is an excellent text for undergraduates majoring in physics and engineering. The style pedagogical with clear and concise illustration followed by practise problems at the end of each chapter.

Robotics

Offers unified treatment of conventional and modern continuous and discrete control theory and demonstrates how to apply the theory to realistic control system design problems. Along with linear and nonlinear, digital and optimal control systems, it presents four case studies of actual designs. The majority of solutions contained in the book and the problems at the ends of the chapters were generated using the commercial software package, MATLAB, and is available free to the users of the book by returning a postcard contained with the book to the MathWorks, Inc. This software also contains the following features/utilities created to enhance MATLAB and several of the MathWorks' toolboxes: Tutorial File which contains the essentials necessary to understand the MATLAB interface (other books require additional books for full comprehension), Demonstration m-file which gives the users a feel for the various utilities included, OnLine HELP, Synopsis File which reviews and highlights the features of each chapter.

Power in a Changing World Economy

Special Features: · Real-world applications · Examples and problems - Includes an abundance of illustrative examples and problems · Marginal notes throughout the text highlight important points About The Book: This best-selling introduction to automatic control systems has been updated to reflect

the increasing use of computer-aided learning and design, and revised to feature a more accessible approach without sacrificing depth.

Automatic Control Engineering

Written as a companion volume to the author's Solving Control Engineering Problems with MATLAB, this indispensable guide illustrates the power of MATLAB as a tool for synthesizing control systems, emphasizing pole placement, and optimal systems design.

Mechatronics and Automatic Control Systems

The second edition of Flight Stability and Automatic Control presents an organized introduction to the useful and relevant topics necessary for a flight stability and controls course. Not only is this text presented at the appropriate mathematical level, it also features standard terminology and nomenclature, along with expanded coverage of classical control theory, autopilot designs, and modern control theory. Through the use of extensive examples, problems, and historical notes, author Robert Nelson develops a concise and vital text for aircraft flight stability and control or flight dynamics courses.

MATLAB Tools for Control System Analysis and Design

The theory of optimal control systems has grown and flourished since the 1960's. Many texts, written on varying levels of sophistication, have been published on the subject. Yet even those purportedly designed for beginners in the field are often riddled with complex theorems, and many treatments fail to include topics that are essential to a thorough grounding in the various aspects of and approaches to optimal control. Optimal Control Systems provides a comprehensive but accessible treatment of the subject with just the right degree of mathematical rigor to be complete but practical. It provides a solid bridge between "traditional" optimization using the calculus of variations and what is called "modern" optimal control. It also treats both continuous-time and discrete-time optimal control systems, giving students a firm grasp on both methods. Among this book's most outstanding features is a summary table that accompanies each topic or problem and includes a statement of the problem with a step-by-step solution. Students will also gain valuable experience in using industry-standard MATLAB and SIMULINK software, including the Control System and Symbolic Math Toolboxes. Diverse applications across fields from power engineering to medicine make a foundation in optimal control systems an essential part of an engineer's background. This clear, streamlined presentation is ideal for a graduate level course on control systems and as a quick reference for working engineers.

Feedback Systems

Sara Little Turnbull was a designer, an observer, a mentor, and not afraid to cause a little trouble while making the world a better place. As a global traveler, she made connections between people and found wonder in the everyday objects they hold dear. As a very petite female designer in the world of large men, Sara used her unique perspective and curiosity to design a wide range of revolutionary products-from facemasks to cookware to astronaut suits-and to encourage others to see the world through new eyes. Sara was a mentor to designers of all ages and in Lettuce Get in Trouble, she helps children understand the basics of design: observing the world around them, asking questions, and trying out new things. One day, the Ministry of Food asks Sara Little to convince the children to eat more vegetables. Instead of offering a stern lecture, however, Sara Little brings her young friends to her Little Lab to explore the colors and shapes of food and why we eat anything at all. Together they design a grand event, inviting children to gather, play, and design tasty new creations.

The Generalissimo's Son

Designed to help learn how to use MATLAB and Simulink for the analysis and design of automatic control systems.

Introduction to Classical Electrodynamics

A practical guide to industrial automation concepts, terminology, and applications Industrial Automation: Hands-On is a single source of essential information for those involved in the design and use of automated machinery. The book emphasizes control systems and offers full coverage of other relevant topics, including machine building, mechanical engineering and devices, manufacturing business systems, and job functions in an industrial environment. Detailed charts and tables serve as handy

design aids. This is an invaluable reference for novices and seasoned automation professionals alike. COVERAGE INCLUDES: * Automation and manufacturing * Key concepts used in automation, controls, machinery design, and documentation * Components and hardware * Machine systems * Process systems and automated machinery * Software * Occupations and trades * Industrial and factory business systems, including Lean manufacturing * Machine and system design * Applications

Modern Control System Theory and Design

For senior-level courses in Control Theory, offered by departments of Electrical & Computer Engineering or Mechanical & Aerospace Engineering. Notable author Katsuhiko Ogata presents the only book available to discuss, in sufficient detail, the details of MATLAB(R) materials needed to solve many analysis and design problems associated with control systems. In this new text, Ogata complements a large number of examples with in-depth explanations, encouraging complete understanding of the MATLAB approach to solving problems. The book's flexible presentation makes it ideal for use as a stand-alone text for those wishing to expand their knowledge of MATLAB; it can also be used in conjunction with a wide range of currently available control textbooks

AUTOMATIC CONTROL SYSTEMS, 8TH ED (With CD)

Model Predictive Control System Design and Implementation Using MATLAB® proposes methods for design and implementation of MPC systems using basis functions that confer the following advantages: - continuous- and discrete-time MPC problems solved in similar design frameworks; - a parsimonious parametric representation of the control trajectory gives rise to computationally efficient algorithms and better on-line performance; and - a more general discrete-time representation of MPC design that becomes identical to the traditional approach for an appropriate choice of parameters. After the theoretical presentation, coverage is given to three industrial applications. The subject of quadratic programming, often associated with the core optimization algorithms of MPC is also introduced and explained. The technical contents of this book is mainly based on advances in MPC using state-space models and basis functions. This volume includes numerous analytical examples and problems and MATLAB® programs and exercises.

Solutions Manual [for] Automatic Control Systems

These simple math secrets and tricks will forever change how you look at the world of numbers. Secrets of Mental Math will have you thinking like a math genius in no time. Get ready to amaze your friends—and yourself—with incredible calculations you never thought you could master, as renowned "mathemagician" Arthur Benjamin shares his techniques for lightning-quick calculations and amazing number tricks. This book will teach you to do math in your head faster than you ever thought possible, dramatically improve your memory for numbers, and—maybe for the first time—make mathematics fun. Yes, even you can learn to do seemingly complex equations in your head; all you need to learn are a few tricks. You'll be able to quickly multiply and divide triple digits, compute with fractions, and determine squares, cubes, and roots without blinking an eye. No matter what your age or current math ability, Secrets of Mental Math will allow you to perform fantastic feats of the mind effortlessly. This is the math they never taught you in school.

Designing Linear Control Systems with MATLAB

The book represents a modern treatment of classical control theory and application concepts. Theoretically, it is based on the state-space approach, where the main concepts have been derived using only the knowledge from a first course in linear algebra. Practically, it is based on the MATLAB package for computer-aided control system design, so that the presentation of the design techniques is simplified. The inclusion of MATLAB allows deeper insights into the dynamical behaviour of real physical control systems, which are quite often of high dimensions. Continuous-time and discrete-time control systems are treated simultaneously with a slight emphasis on the continous-time systems, especially in the area of controller design. Instructor's Manual (0-13-264730-3).

Flight Stability and Automatic Control

Focuses on the first control systems course of BTech, JNTU, this book helps the student prepare for further studies in modern control system design. It offers a profusion of examples on various aspects of study.

Optimal Control Systems

This text's contemporary approach focuses on the concepts of linear control systems, rather than computational mechanics. Straightforward coverage includes an integrated treatment of both classical and modern control system methods. The text emphasizes design with discussions of problem formulation, design criteria, physical constraints, several design methods, and implementation of compensators. Discussions of topics not found in other texts—such as pole placement, model matching and robust tracking—add to the text's cutting-edge presentation. Students will appreciate the applications and discussions of practical aspects, including the leading problem in developing block diagrams, noise, disturbances, and plant perturbations. State feedback and state estimators are designed using state variable equations and transfer functions, offering a comparison of the two approaches. The incorporation of MATLAB throughout the text helps students to avoid time-consuming computation and concentrate on control system design and analysis.

Lettuce Get in Trouble

Control Tutorials for MATLAB and Simulink

Quantitative Techniques in Management

Quantitative Techniques in Management,3e

Water-Supply Paper, Issues 351-354

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Geological Survey Water-supply Paper

Nitrogen in the Environment: Sources, Problems, and Management is the first volume to provide a holistic perspective and comprehensive treatment of nitrogen from field, to ecosystem, to treatment of urban and rural drinking water supplies, while also including a historical overview, human health impacts and policy considerations. It provides a worldwide perspective on nitrogen and agriculture. Nitrogen is one of the most critical elements required in agricultural systems for the production of crops for feed, food and fiber. The ever-increasing world population requires increasing use of nitrogen in agriculture to supply human needs for dietary protein. Worldwide demand for nitrogen will increase as a direct response to increasing population. Strategies and perspectives are considered to improve nitrogen-use efficiency. Issues of nitrogen in crop and human nutrition, and transport and transformations along the continuum from farm field to ground water, watersheds, streams, rivers, and coastal marine environments are discussed. Described are aerial transport of nitrogen from livestock and agricultural systems and the potential for deposition and impacts. The current status of nitrogen in the environment in selected terrestrial and coastal environments and crop and forest ecosystems and development of emerging technologies to minimize nitrogen impacts on the environment are addressed. The nitrogen cycle provides a framework for assessing broad scale or even global strategies to improve nitrogen use efficiency. Growing human populations are the driving force that requires increased nitrogen inputs. These increasing inputs into the food-production system directly result in increased livestock and human-excretory nitrogen contribution into the environment. The scope of this book is diverse, covering a range of topics and issues from furthering our understanding of nitrogen in the environment to policy considerations at both farm and national scales.

Water-supply Paper

The Water-Energy-Food Nexus: Optimization Models for Decision Making covers the discussion about water, energy, and food as a crucial resource for human well-being and for sustainable development. These resources are inextricable interrelated, therefore, to cover water, energy, and food demands in different sectors and at different scales, it must be considered several sources to produce resources even conventional or unconventional, and there must be considered the interlinkages of resources for a proper integration. This book will emphasize several issues that must be considered in the design of water-energy-food nexus systems such as the selection of technologies to produce water or energy, size of technologies and food required to cover nutritional demands. Therefore, in The Water-Energy-Food Nexus: Optimization Models for Decision Making, mathematical models are presented for the design of water-energy-food nexus systems involving several strategies to account for issues like sustainable development, security of resources, interest in conflicts from stakeholders, and efficient allocation of resources. Includes different optimization models for the integration of water-energy-food nexus Considers sustainability criteria in the presented models Helps readers understand different approaches for trade-off solutions Presents general software that can be used in solving different problems

Nitrogen in the Environment: Sources, Problems and Management

The definitive guide to unsaturated soil— from the world's experts on the subject This book builds upon and substantially updates Fredlund and Rahardjo's publication, Soil Mechanics for Unsaturated Soils, the current standard in the field of unsaturated soils. It provides readers with more thorough coverage of the state of the art of unsaturated soil behavior and better reflects the manner in which practical unsaturated soil engineering problems are solved. Retaining the fundamental physics of unsaturated soil behavior presented in the earlier book, this new publication places greater emphasis on the importance of the "soil-water characteristic curve" in solving practical engineering problems, as well as the quantification of thermal and moisture boundary conditions based on the use of weather data. Topics covered include: Theory to Practice of Unsaturated Soil Mechanics Nature and Phase Properties of Unsaturated Soil State Variables for Unsaturated Soils Measurement and Estimation of State Variables Soil-Water Characteristic Curves for Unsaturated Soils Ground Surface Moisture Flux Boundary Conditions Theory of Water Flow through Unsaturated Soils Solving Saturated/Unsaturated Water Flow Problems Air Flow through Unsaturated Soils Heat Flow Analysis for Unsaturated Soils Shear Strength of Unsaturated Soils Shear Strength Applications in Plastic and Limit Equilibrium Stress-Deformation Analysis for Unsaturated Soils Solving Stress-Deformation Problems with Unsaturated Soils Compressibility and Pore Pressure Parameters Consolidation and Swelling Processes in Unsaturated Soils Unsaturated Soil Mechanics in Engineering Practice is essential reading for geotechnical engineers, civil engineers, and undergraduate- and graduate-level civil engineering students with a focus on soil mechanics.

Official Year Book of the Commonwealth of Australia No. 48 - 1962

Climate change is expected to modify the hydrological cycle and affect freshwater resources. Groundwater is a critical source of fresh drinking water for almost half of the worlds population and it also supplies irrigated agriculture. Groundwater is also important in sustaining streams, lakes, wetlands, and associated ecosystems. But despite this,

Journal of Gas Lighting

Provides detailed methods to reduce or eliminate damage caused by corrosion Explains the human and environmental costs of corrosion Explains causes of and various types of corrosion Summarizes the costs of corrosion in different industries, including bridges, mining, petroleum refining, chemical, petrochemical, and pharmaceutical, pulp and paper, agricultural, food processing, electronics, home appliances etc Discusses the technical aspects of the various methods available to detect, prevent, and control corrosion

The Journal of Gas Lighting, Water Supply & Sanitary Improvement

This online course will give you insights into important compliance topics.

Catalogue of the Public Documents of the ... Congress and of All Departments of the Government of the United States for the Period from ... to ...

"Containing the public messages, speeches, and statements of the President\

Catalogue of the Public Documents of the [the Fifty-third] Congress [to the 76th Congress] and of All Departments of the Government of the United States

Public Papers of the Presidents of the United States

Annotated Bibliography on Hydrology and Sedimentation, 1963-1965, United States and Canada

English abstracts from Kholodil'naia tekhnika.

Joint Hydrology-sedimentation Bulletin

Geological Survey Professional Paper