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KEY=POWERBRUSH - ISAIAH CHRISTINE

MANUAL OF ORNITHOLOGY

AVIAN STRUCTURE & FUNCTION

Yale University Press "Here is a volume that has no parallel. . . . A good reference book for those interested in the details of avian anatomy."--*Science Books & Films* "A gold mine of facts. . . . Every library and biology department, as well as every birder, should have a copy close at hand."--Roger Tory Peterson, from the foreword One of the most heavily illustrated ornithology references ever written, *Manual of Ornithology* is a visual guide to the structure and anatomy of birds--a basic tool for investigation for anyone curious about the fascinating world of birds. A concise atlas of anatomy, it contains more than 200 specially prepared accurate and clear drawings that include material never illustrated before. The text is as informative as the drawings; written at a level appropriate to undergraduate students and to bird lovers in general, it discusses why birds look and act the way they do. Designed to supplement a basic ornithology textbook, the *Manual of Ornithology* covers systematics and evolution, topography, feathers and flight, the skeleton and musculature, and the digestive, circulatory, respiratory, excretory, reproductive, sensory, and nervous systems of birds, as well as field techniques for watching and studying birds. Each chapter concludes with a list of key references for the topic covered, with a comprehensive bibliography at the end of the volume.

PIPELINE INTEGRITY

MANAGEMENT AND RISK EVALUATION

Gulf Professional Publishing Pipeline engineers, operators, and plant managers are responsible for the safety of pipelines, facilities, and staying on top of regulatory compliance and maintenance. However, they frequently need reference materials to support their decision, and many new pipeline engineers and plant managers are

responsible for major repairs and decisions yet do not have the proper reference to set a holistic integrity plan in place. Pipeline Integrity, 2nd Edition delivers necessary pipeline inspection methods, identification of hazard mechanisms, risk and consequence evaluations, and repair strategies. Covering relevant standards and processes for risk, assessment, and integrity management, this go-to reference provides the principles that guide these concepts enhanced with more critical regulatory information and easier organization between liquid and gas pipelines. More detailed information is provided on asset reliability, including risk-based inspection and other inspection prioritizing tools such as value-driven maintenance and evidence-based asset management. Pipeline Integrity, 2nd Edition continues to provide engineers and plants managers a vital resource for keeping their pipelines and facilities safe and efficient. Set an integrity management plan and safe assessment program while properly characterizing impact of risk Get updated with new information on corrosion control, gas and liquid hydrocarbon transportation risk management and asset integrity management Understand and apply all the latest and critical oil and gas pipeline standards, both U.S. and international-based

DRILLING FLUIDS PROCESSING HANDBOOK

Elsevier Written by the Shale Shaker Committee of the American Society of Mechanical Engineers, originally of the American Association of Drilling Engineers, the authors of this book are some of the most well-respected names in the world for drilling. The first edition, Shale Shakers and Drilling Fluid Systems, was only on shale shakers, a very important piece of machinery on a drilling rig that removes drill cuttings. The original book has been much expanded to include many other aspects of drilling solids control, including chapters on drilling fluids, cut-point curves, mud cleaners, and many other pieces of equipment that were not covered in the original book. Written by a team of more than 20 of the world's foremost drilling experts, from such companies as Shell, Conoco, Amoco, and BP There has never been a book that pulls together such a vast array of materials and depth of topic coverage in the area of drilling fluids Covers quickly changing technology that updates the drilling engineer on all of the latest equipment, fluids, and techniques

GAS AND OIL RELIABILITY ENGINEERING

MODELING AND ANALYSIS

Gulf Professional Publishing Gas and Oil Reliability Engineering: Modeling and Analysis, Second Edition, provides the latest tactics and processes that can be used in oil and gas markets to improve reliability knowledge and reduce costs to stay competitive, especially while oil prices are low. Updated with relevant analysis and case studies covering equipment for both onshore and offshore operations, this reference provides the engineer and manager with more information on lifetime data analysis (LDA), safety integrity levels (SILs), and asset management. New chapters on safety, more coverage on the latest software, and techniques such as ReBi (Reliability-Based Inspection), ReGBI (Reliability Growth-Based Inspection), RCM (Reliability Centered Maintenance), and LDA (Lifetime Data Analysis), and asset

integrity management, make the book a critical resource that will arm engineers and managers with the basic reliability principles and standard concepts that are necessary to explain their use for reliability assurance for the oil and gas industry. Provides the latest tactics and processes that can be used in oil and gas markets to improve reliability knowledge and reduce costs Presents practical knowledge with over 20 new internationally-based case studies covering BOPs, offshore platforms, pipelines, valves, and subsea equipment from various locations, such as Australia, the Middle East, and Asia Contains expanded explanations of reliability skills with a new chapter on asset integrity management, relevant software, and techniques training, such as THERP, ASEP, RBI, FMEA, and RAMS

GAS WELL TESTING HANDBOOK

Gulf Professional Publishing "Gas Well Testing Handbook deals exclusively with the theory and practice of gas well testing, including pressure transient analysis technique, analytical methods required to interpret well behavior, evaluating reservoir quality, reservoir simulation, and production forecasts. A highly practical volume, this book is written for drilling engineers, well logging engineers, reservoir engineers, engineering students, geologists, and geophysicists."--BOOK JACKET

WORKING GUIDE TO RESERVOIR ENGINEERING

Gulf Professional Publishing Working Guide to Reservoir Engineering provides an introduction to the fundamental concepts of reservoir engineering. The book begins by discussing basic concepts such as types of reservoir fluids, the properties of fluid containing rocks, and the properties of rocks containing multiple fluids. It then describes formation evaluation methods, including coring and core analysis, drill stem tests, logging, and initial estimation of reserves. The book explains the enhanced oil recovery process, which includes methods such as chemical flooding, gas injection, thermal recovery, technical screening, and laboratory design for enhanced recovery. Also included is a discussion of fluid movement in waterflooded reservoirs. Predict local variations within the reservoir Explain past reservoir performance Predict future reservoir performance of field Analyze economic optimization of each property Formulate a plan for the development of the field throughout its life Convert data from one discipline to another Extrapolate data from a few discrete points to the entire reservoir

UNCONVENTIONAL OIL AND GAS RESOURCES HANDBOOK

EVALUATION AND DEVELOPMENT

Gulf Professional Publishing Unconventional Oil and Gas Resources Handbook: Evaluation and Development is a must-have, helpful handbook that brings a wealth of information to engineers and geoscientists. Bridging between subsurface and production, the handbook provides engineers and geoscientists with effective methodology to better define resources and reservoirs. Better reservoir knowledge and innovative technologies are making unconventional resources economically possible, and multidisciplinary approaches in evaluating these resources are critical

to successful development. Unconventional Oil and Gas Resources Handbook takes this approach, covering a wide range of topics for developing these resources including exploration, evaluation, drilling, completion, and production. Topics include theory, methodology, and case histories and will help to improve the understanding, integrated evaluation, and effective development of unconventional resources. Presents methods for a full development cycle of unconventional resources, from exploration through production Explores multidisciplinary integrations for evaluation and development of unconventional resources and covers a broad range of reservoir characterization methods and development scenarios Delivers balanced information with multiple contributors from both academia and industry Provides case histories involving geological analysis, geomechanical analysis, reservoir modeling, hydraulic fracturing treatment, microseismic monitoring, well performance and refracturing for development of unconventional reservoirs

GAS WELL DELIQUIFICATION

Gulf Professional Publishing Liquid loading can reduce production and shorten the lifecycle of a well costing a company millions in revenue. A handy guide on the latest techniques, equipment, and chemicals used in de-watering gas wells, *Gas Well Deliquification*, 2nd Edition continues to be the engineer's choice for recognizing and minimizing the effects of liquid loading. The 2nd Edition serves as a guide discussing the most frequently used methods and tools used to diagnose liquid loading problems and reduce the detrimental effects of liquid loading on gas production. With new extensive chapters on Coal Bed Methane and Production this is the essential reference for operating engineers, reservoir engineers, consulting engineers and service companies who supply gas well equipment. It provides managers with a comprehensive look into the methods of successful Production Automation as well as tools for the profitable use, production and supervision of coal bed gases. • Turnkey solutions for the problems of liquid loading interference • Based on decades of practical, easy to use methods of de-watering gas wells • Expands on the 1st edition's useful reference with new methods for utilizing Production Automation and managing Coal Bed Methane

SURFACE PRODUCTION OPERATIONS, VOLUME 1

DESIGN OF OIL HANDLING SYSTEMS AND FACILITIES

Elsevier The latest edition of this best-selling title is updated and expanded for easier use by engineers. New to this edition is a section on the fundamentals of surface production operations taking up topics from the oilfield as originally planned by the authors in the first edition. This information is necessary and endemic to production and process engineers. Now, the book offers a truly complete picture of surface production operations, from the production stage to the process stage with applications to process and production engineers. New in-depth coverage of hydrocarbon characteristics, the different kinds of reservoirs, and impurities in crude Practical suggestions help readers understand the art and science of handling

produced liquids Numerous, easy-to-read figures, charts, tables, and photos clearly explain how to design, specify, and operate oilfield surface production facilities

INDUSTRIAL PIPING AND EQUIPMENT ESTIMATING MANUAL

Gulf Professional Publishing Industrial Piping and Equipment Estimation Manual delivers an invaluable resource for day-to-day operations. Packed full of worksheets covering combined and simple cycle power plants, refineries, compressor stations, ethanol, hydrogen and biomass plants, this reference helps the construction engineer and estimator learn how to create bids where scope and quantity differences can be identified and project impacts estimated. Beginning with an introduction devoted to labor, productivity measurement, estimating methods, and factors affecting construction labor productivity and impacts of overtime, the author then explores equipment through hands-on estimation tables, including sample estimates and statistical applications. The book rounds out with a glossary, abbreviations list, formulas, and metric/standard conversions, and is an ideal reference for estimators, engineers and managers with the level of detail and equipment breakdown necessary for today's industrial operations. Includes day-to-day worksheets to help users estimate equipment and piping for any plant or refinery project Presents the comparison method to estimate similarities and differences between proposed and previously installed equipment Helps users understand and produce more accurate direct costs with sample estimates

ESSENTIALS OF OIL AND GAS UTILITIES

PROCESS DESIGN, EQUIPMENT, AND OPERATIONS

Gulf Professional Publishing Every oil and gas refinery or petrochemical plant requires sufficient utilities support in order to maintain a successful operation. A comprehensive utilities complex must exist to distribute feedstocks, discharge waste streams, and remains an integrated part of the refinery's infrastructure. Essentials of Oil and Gas Utilities explains these support systems and provides essential information on their essential requirements and process design. This guide includes water treatment plants, condensate recovery plants, high pressure steam boilers, induced draft cooling towers, instrumentation/plant air compressors, and units for a refinery fuel gas and oil systems. In addition, the book offers recommendations for equipment and flow line protection against temperature fluctuations and the proper preparation and storage of strong and dilute caustic solutions. Essentials of Oil and Gas Utilities is a go-to resource for engineers and refinery personnel who must consider utility system design parameters and associated processes for the successful operations of their plants. Discusses gaseous and liquid fuel systems used to provide heat for power generation, steam production and process requirements Provides a design guide for compressed air systems used to provide air to the various points of application in sufficient quantity and quality and with adequate pressure for efficient operation of air tools or other pneumatic devices. Explains the water systems utilized in plant operations which include water treatment systems or raw water and plant water system; cooling water circuits for internal combustion

engines, reciprocating compressors, inter-cooling and after-cooling facilities; and "Hot Oil" and "Tempered Water" systems

WORKING GUIDE TO DRILLING EQUIPMENT AND OPERATIONS

Gulf Professional Publishing Working Guide to Drilling Equipment and Operations offers a practical guide to drilling technologies and procedures. The book begins by introducing basic concepts such as the functions of drilling muds; types of drilling fluids; testing of drilling systems; and completion and workover fluids. This is followed by discussions of the composition of the drill string; air and gas drilling operations; and directional drilling. The book identifies the factors that should be considered for optimized drilling operations: health, safety, and environment; production capability; and drilling implementation. It explains how to control well pressure. It details the process of fishing, i.e. removal of a fish (part of the drill string that separates from the upper remaining portion of the drill string) or junk (small items of non-drillable metals) from the borehole. The remaining chapters cover the different types of casing and casing string design; well cementing; the proper design of tubing; and the environmental aspects of drilling. Drilling and Production Hoisting Equipment Hoisting Tool Inspection and Maintenance Procedures Pump Performance Charts Rotary Table and Bushings Rig Maintenance of Drill Collars Drilling Bits and Downhole Tools

THE ENGINEER'S GUIDE TO PLANT LAYOUT AND PIPING DESIGN FOR THE OIL AND GAS INDUSTRIES

Gulf Professional Publishing The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries gives pipeline engineers and plant managers a critical real-world reference to design, manage, and implement safe and effective plants and piping systems for today's operations. This book fills a training void with complete and practical understanding of the requirements and procedures for producing a safe, economical, operable and maintainable process facility. Easy to understand for the novice, this guide includes critical standards, newer designs, practical checklists and rules of thumb. Due to a lack of structured training in academic and technical institutions, engineers and pipe designers today may understand various computer software programs but lack the fundamental understanding and implementation of how to lay out process plants and run piping correctly in the oil and gas industry. Starting with basic terms, codes and basis for selection, the book focuses on each piece of equipment, such as pumps, towers, underground piping, pipe sizes and supports, then goes on to cover piping stress analysis and the daily needed calculations to use on the job. Delivers a practical guide to pipe supports, structures and hangers available in one go-to source Includes information on stress analysis basics, quick checks, pipe sizing and pressure drop Ensures compliance with the latest piping and plant layout codes and complies with worldwide risk management legislation and HSE Focuses on each piece of equipment, such as pumps, towers, underground piping, pipe sizes and supports Covers piping stress analysis and the daily needed calculations to use on the job

WELL CONTROL FOR COMPLETIONS AND INTERVENTIONS

Gulf Professional Publishing Well Control for Completions and Interventions explores the standards that ensure safe and efficient production flow, well integrity and well control for oil rigs, focusing on the post-Macondo environment where tighter regulations and new standards are in place worldwide. Too many training facilities currently focus only on the drilling side of the well's cycle when teaching well control, hence the need for this informative guide on the topic. This long-awaited manual for engineers and managers involved in the well completion and intervention side of a well's life covers the fundamentals of design, equipment and completion fluids. In addition, the book covers more important and distinguishing components, such as well barriers and integrity envelopes, well kill methods specific to well completion, and other forms of operations that involve completion, like pumping and stimulation (including hydraulic fracturing and shale), coiled tubing, wireline, and subsea intervention. Provides a training guide focused on well completion and intervention Includes coverage of subsea and fracturing operations Presents proper well kill procedures Allows readers to quickly get up-to-speed on today's regulations post-Macondo for well integrity, barrier management and other critical operation components

WELL PRODUCTIVITY HANDBOOK

Elsevier With rapid changes in field development methods being created over the past few decades, there is a growing need for more information regarding energizing well production. Written by the world's most respected petroleum engineering authors, Well Productivity Handbook provides knowledge for modeling oil and gas wells with simple and complex trajectories. Covering critical topics, such as petroleum fluid properties, reservoir deliverability, wellbore flow performance and productivity of intelligent well systems, this handbook explains real-world applications illustrated with example problems.

THERMAL INSULATION HANDBOOK FOR THE OIL, GAS, AND PETROCHEMICAL INDUSTRIES

Gulf Professional Publishing Thermal Insulation Handbook for the Oil and Gas Industries addresses relative design, materials, procedures, and standard installation necessities for various oil and gas infrastructure such as pipelines, subsea equipment, vessels, and tanks. With the continued increase in available natural gas ready to export — especially LNG — and the definition of "deepwater" changing every year, an understanding of thermal insulation is more critical than ever. This one-of-a-kind handbook helps oil and gas engineers ensure that their products are exporting safely and that the equipment's integrity is protected. Topics include: Design considerations and component selection, including newer materials such as cellular glass Methods to properly install the insulation material and notable inspection and safety considerations in accordance with applicable US and international standards, specifically designed for the oil and gas industry Calculations to make sure that every scenario is considered and requirements for

size, composition, and packaging are met effectively Understand all appropriate, new and existing, insulation material properties as well as installation requirements Gain practical knowledge on factors affecting insulation efficiency, rules of thumb, and links to real-world case studies Maximize flow assurance safely and economically with critical calculations provided

RESERVOIR ENGINEERING

THE FUNDAMENTALS, SIMULATION, AND MANAGEMENT OF CONVENTIONAL AND UNCONVENTIONAL RECOVERIES

Gulf Professional Publishing Reservoir Engineering focuses on the fundamental concepts related to the development of conventional and unconventional reservoirs and how these concepts are applied in the oil and gas industry to meet both economic and technical challenges. Written in easy to understand language, the book provides valuable information regarding present-day tools, techniques, and technologies and explains best practices on reservoir management and recovery approaches. Various reservoir workflow diagrams presented in the book provide a clear direction to meet the challenges of the profession. As most reservoir engineering decisions are based on reservoir simulation, a chapter is devoted to introduce the topic in lucid fashion. The addition of practical field case studies make *Reservoir Engineering* a valuable resource for reservoir engineers and other professionals in helping them implement a comprehensive plan to produce oil and gas based on reservoir modeling and economic analysis, execute a development plan, conduct reservoir surveillance on a continuous basis, evaluate reservoir performance, and apply corrective actions as necessary. Connects key reservoir fundamentals to modern engineering applications Bridges the conventional methods to the unconventional, showing the differences between the two processes Offers field case studies and workflow diagrams to help the reservoir professional and student develop and sharpen management skills for both conventional and unconventional reservoirs

COMPRESSION MACHINERY FOR OIL AND GAS

Gulf Professional Publishing Compression Machinery for Oil and Gas is the go-to source for all oil and gas compressors across the industry spectrum. Covering multiple topics from start to finish, this reference gives a complete guide to technology developments and their applications and implementation, including research trends. Including information on relevant standards and developments in subsea and downhole compression, this book aids engineers with a handy, single resource that will help them stay up-to-date on the compressors needed for today's oil and gas applications. Provides an overview of the latest technology, along with a detailed discussion of engineering Delivers on the efficiency, range and limit estimations for machines Pulls together multiple contributors to balance content from both academics and corporate research

A PRACTICAL GUIDE TO PIPING AND VALVES FOR THE OIL AND GAS INDUSTRY

Gulf Professional Publishing *A Practical Guide to Piping and Valves for the Oil and Gas Industry* covers how to select, test and maintain the right oil and gas valve. Each chapter focuses on a specific type of valve with a built-in structured table on valve selection. Covering both onshore and offshore projects, the book also gives an introduction to the most common types of corrosion in the oil and gas industry, including CO₂, H₂S, pitting, crevice, and more. A model to evaluate CO₂ corrosion rate on carbon steel piping is introduced, along with discussions on bulk piping components, including fittings, gaskets, piping and flanges. Rounding out with chapters devoted to valve preservation to protect against harmful environments and factory acceptance testing, this book gives engineers and managers a much-needed tool to better understand today's valve technology. Presents oil and gas examples and challenges relating to valves, including many illustrations from valves in different stages of projects Helps readers understand valve materials, testing, actuation, packing and preservation, also including a new model to evaluate CO₂ corrosion rates on carbon steel piping Presents structured valve selection tables in each chapter to help readers pick the right valve for the right project

FORMULAS AND CALCULATIONS FOR PETROLEUM ENGINEERING

Gulf Professional Publishing *Formulas and Calculations for Petroleum Engineering* unlocks the capability for any petroleum engineering individual, experienced or not, to solve problems and locate quick answers, eliminating non-productive time spent searching for that right calculation. Enhanced with lab data experiments, practice examples, and a complimentary online software toolbox, the book presents the most convenient and practical reference for all oil and gas phases of a given project. Covering the full spectrum, this reference gives single-point reference to all critical modules, including drilling, production, reservoir engineering, well testing, well logging, enhanced oil recovery, well completion, fracturing, fluid flow, and even petroleum economics. Presents single-point access to all petroleum engineering equations, including calculation of modules covering drilling, completion and fracturing Helps readers understand petroleum economics by including formulas on depreciation rate, cashflow analysis, and the optimum number of development wells

APPLIED WELL CEMENTING ENGINEERING

Gulf Professional Publishing *Applied Well Cementing Engineering* delivers the latest technologies, case studies, and procedures to identify the challenges, understand the framework, and implement the solutions for today's cementing and petroleum engineers. Covering the basics and advances, this contributed reference gives the complete design, flow and job execution in a structured process. Authors, collectively, bring together knowledge from over 250 years of experience in cementing and condense their knowledge into this book. Real-life successful and unsuccessful case studies are included to explain lessons learned about the technologies used today. Other topics include job simulation, displacement efficiency, and hydraulics. A practical guide for cementing engineer, Applied Well

Cementing Engineering, gives a critical reference for better job execution. Provides a practical guide and industry best practices for both new and seasoned engineers
Independent chapters enable the readers to quickly access specific subjects
Gain a complete framework of a cementing job with a detailed road map from casing equipment to plug and abandonment