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LANE STOUT

Fire Service Pump Operator Jones & Bartlett Publishers

Safe and effective structural firefighting requires a complex thought process. It is not a simple matter of "how to." Decisions depend on many factors, from the type of building, to the likelihood of occupancy, to the water supply. The third edition of Structural Firefighting: Strategy and Tactics leads readers through all phases of planning, evaluation and implementation to enable them to effectively manage structure fire incidents safe and effective manner, regardless of size or complexity. The third edition has been revised to thoroughly cover the practical applications and limitations of the latest research from Underwriters Laboratories (UL) and National Institute of Standards and Technology (NIST).

Introduction to Fire Protection and Emergency Services Jones & Bartlett Learning

Learn to safely and effectively drive and operate an apparatus with fire pumpers with the new Fire Service Pump Operator: Principles and Practice! This text is the core of a complete teaching and learning system that thoroughly supports instructors and prepares students for the job. The text includes up-to-date coverage the 2009 Edition of NFPA 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications. This text provides a thorough understanding of the types of fire apparatus equipped with pumps, how to safely drive them, and how to properly maintain these vehicles through inspection and testing programs. Students will also learn how to operate fire pumps by gaining an understanding of water supply, nozzles and flow rates, optimal positioning, and more.

Organizing for Fire and Rescue Services Jones & Bartlett Learning

Fundamentally, fire prevention and control refer to systems and practices that increase a facility's ability to avoid fires, limit the development and spread of fires, and rapidly and effectively control fires. Changing safety codes and regulations along with recent technological advances have rendered the first edition of this popular handbook somewhat out of date and left fire safety professionals without a current, reliable reference devoted to their needs. Comprehensive, uniquely focused, and completely up to date, the Industrial Fire Protection Handbook, Second Edition provides a practical guide for improving fire prevention and protection within a work environment. The author has made extensive revisions, significantly expanded his discussions in key areas, and added numerous examples and illustrations to provide a better-than-ever overview of all essential areas of fire protection, including loss control programs, fire behavior, life safety, hazard control, and emergency planning. New in the Second Edition: Discussions of new extinguishing agents, including wet chemical and clean agents designed to replace halon Significantly expanded coverage of general loss control programs More in-depth treatment of hazard control and life safety issues Broader coverage of installed fire protection systems More examples covering selection, placement, and maintenance of fire extinguishers

Fire Service Pump Operator: Principles and Practice PennWell Books

The National Fire Protection Association (NFPA) and the International Association of Fire Chiefs (IAFC) are pleased to bring you Fire Apparatus Driver/Operator: Pump, Aerial, Tiller, and Mobile Water Supply, Third Edition. This third edition of Fire Apparatus Driver/Operator has been thoroughly updated to serve as a complete training solution that addresses pump operation, safe driving techniques, tiller and aerial apparatus operation, and water supply considerations. From basic apparatus maintenance to fire pump theory and advanced hydraulic calculations, this single manual covers everything a fire service driver/operator needs to know. Fire Apparatus Driver/Operator: Pump, Aerial, Tiller, and Mobile Water Supply, Third Edition meets and exceeds the job performance requirements (JPRs) of Chapters 4, 5, 6, 7, and 10 of the 2017 Edition of NFPA 1002, Fire Apparatus Driver/Operator Professional Qualifications. In the 2017 edition, the requirement that a Driver/Operator be certified to the Fire Fighter I level was removed. However, JPRs from NFPA 1001, Standard for Fire Fighter Professional Qualifications have been added so driver/operators who operate pumpers and mobile water supply apparatus are able to operate outside of the immediate dangers to life and health (IDLH) but still have an understanding of the following Fire Fighter I topics: Fire Department Communications (NFPA 1001: 5.2.1, 5.2.2, 5.2.3) The General Knowledge Requirements (NFPA 1001: 5.1.1) Responding on an Apparatus to an Emergency Scene (NFPA 1001: 5.3.2) Connect a Fire Department Pumper to a Water Supply (NFPA 1001: 5.3.15) Additional appendices include the excerpt of NFPA 1002 and corresponding correlation matrixes to substantiate all JPRs that are covered and documented. Comprehensive and updated content in this edition includes: Nozzle reaction and how to calculate it Expanded coverage of pump anatomy and pressure control devices Content that addresses vital parts of NFPA 1901, Standard for Automotive Fire Apparatus and NFPA 1911, Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service Automotive Fire Apparatus. Appendix A: Daily/Weekly Inspection Check Sheet, that provides a comprehensive overview on what to inspect and how to ensure your apparatus is at operational readiness.

Worthington Pump Handbook Jones & Bartlett Learning

This reference is designed to give you a working knowledge of fire protection in new construction and remodeling. You are guided through every phase of systems design, installation and performance with over 80 illustrations of system configurations. You see how to trouble-shoot engineering plans, systems selection, components, installation work...how to comply with codes and standards. Each section is aimed at helping you see the Big Picture as well as the vital details which can make or break the fire protection segment of the project. Whatever your professional role...architect, engineer, contractor, facilities manager...you'll benefit from the author's expert advice.

Fire Protection Systems includes Navigate Advantage Access Jones & Bartlett Publishers

This volume in the Hydraulic Machinery Book Series covers the most important types of hydraulic machinery: hydraulic turbines for transforming water power to mechanical output; and pumps for producing fluid pressure for many purposes. It describes the features of mechanical design of various types of turbines and pumps. The structure of a hydraulic machine is decided primarily to satisfy the need of fluid flow, so hydraulic characteristics of the machines are also stressed. Manufacturing processes of turbines and pumps and their requirements are referred to in chapters on mechanical construction.

Structural Firefighting Jones & Bartlett Learning

Fire Fighter Safety and Survival is an essential guide designed to keep fire fighters safe from the

many hazards they will face on-the-job. Developed around the 16 Firefighter Life Safety Initiatives, this textbook provides scores of real-life examples from the fire service and other high-risk industries to illustrate the dangers of fire fighting. More importantly, these examples help readers to stay safe in similar situations by offering helpful information on risk management, how to incorporate safety procedures within their department, and how to foster a culture of safety to ensure that "Everyone Goes Home." The Second Edition features: Coverage of the Fire and Emergency Services Higher Education (FESHE) Firefighter Safety and Survival model curriculum. Updated statistics, references, and examples from recent events Over 100 real-life examples from the fire service and nuclear, medical, military, and airline industries to provide readers with a complete understanding of risk management, safety systems, and situational awareness principles. Fire science students, seasoned professionals, and rookies alike can turn to Fire Fighter Safety and Survival, Second Edition for the knowledge and tools needed to make a difference in their departments without sacrificing cherished, long-standing traditions.

Structural Firefighting Lulu.com

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

Industrial Firefighting for Municipal Firefighters Jones & Bartlett Publishers

"This text meets the course outcomes of the National Fire Academy's Fire and Emergency Services Higher Education (FESHE) associate level strategy and tactics course. It provides an overview of common firefighting concepts from fire dynamics to extinguishing agents, to incident management, to fire fighter safety, to building construction, to preincident planning to post incident analysis"-- Back cover.

Fire Protection Hydraulics and Water Supply, Revised Third Edition Jones & Bartlett Publishers

In addition to architects, engineers, and design professionals, fire fighters also need to understand fire protection systems in order to manage the fire scene and minimize risks to life and property. Fire Protection Systems, Second Edition provides a comprehensive overview of the various types of fire protection systems, their operational abilities and characteristics, and their applications within various types of structures. The new Second Edition meets the latest course objectives from the Fire and Emergency Services Higher Education's (FESHE) Fire Protection Systems model curriculum and covers: • Water supply basics, including sources, distribution networks, piping, and hydrants. • Active fire protection systems and components, their operational characteristics, and installation, inspection, testing, and maintenance requirements. • Passive fire protection systems such as firewalls, fire separation assemblies, and fire dampers • Smoke control and management systems, gas-based suppression, access and egress control systems, and the code requirements for installation of these systems. Ensure that you are completely up-to-date on the latest fire protection systems and their operational characteristics and abilities with Fire Protection Systems, Second Edition.

Fire Service Hydraulics Jones & Bartlett Learning

Whether you are on the job or in training, Fire Fighter Safety and Survival, Third Edition is a must-have resource for fire fighters, EMS providers, and other safety professionals. Focused on improving statistics for line-of-duty injuries and fatalities, this book details the 16 Fire Fighter Life Safety Initiatives supported by the National Fallen Firefighters Foundation (NFFF) and describes a fire fighter life safety program, as well as methods for implementation. Actual scenarios from the fire service put you in the center of life-threatening situations and gives you the skills and knowledge it takes to create positive outcomes from incidents and promote a safety culture in your department. The Third Edition features: Correlating directly with the 16 Fire Fighter Life Safety Initiatives supported by the National Fallen Firefighters Foundation (NFFF) and the National Fire Academy's Fire and Emergency Services Higher Education (FESHE) course objectives and outcomes for the Associate's (Core) course called Principles of Fire and Emergency Services Safety and Survival (C0281). This book delivers the know-how to help you reduce injuries and fatalities within your department. Each chapter begins with a Case Study that provides students a means to test their understanding of the chapter concepts in the context of a fictional scenario. Make a difference in your department with new and evolving ideas that give you the knowledge and tools to succeed without sacrificing cherished longstanding traditions. Understand and apply safety concepts introduced in the chapters through realistic scenarios and examples shared by the author. Broaden your horizons with real examples of safety problems and solutions from other industries where high risk, life safety, and human response all comes into play. Important new topics were added including: NFPA 3000™, Standard for an Active Shooter/ Hostile Event Response (ASHER) Program. NFFF Vulnerability Assessment Program (VAP) and USFA Risk Management Practices. Introduced new cancer prevention strategies monitoring polycyclic aromatic hydrocarbons (PAHs). Use of drones by emergency responders with new FAA requirements. Emotional support aligned with NFPA and the American Psychological Association (APA) Diagnostic and Statistical Manual of Mental Disorders (DSM-5).

Essentials of Oil and Gas Utilities Jones & Bartlett Learning

This textbook is packaged with Navigate 2 Advantage Access which unlocks a complete eBook, Study Center, homework and Assessment Center, and a dashboard that reports actionable data. Experience Navigate 2 today at www.jbnavigate.com/2. Wildland Fire Fighter: Principles and

Practice, Second Edition meets and exceeds the job performance requirements and objectives as outlined in the following National Fire Protection Association (NFPA) and National Wildland Coordinating Group (NWCG) standards: • NFPA 1051, Standard for Wildland Firefighting Personnel Professional Qualifications, 2020 Edition (Chapters 4 and 5) • NWCG S-190, Introduction to Wildland Fire Behavior, 2019 Edition • NWCG S-130, Firefighter Training, 2008 Edition • NWCG L-180, Human Factors in the Wildland Fire Service, 2014 Edition From wildland fire service history, to safety, to water supply, to firing operations, this single manual covers everything an NFPA Wildland Fire Fighter I and Wildland Fire Fighter II (NWCG Fire Fighter Type 2 and 1) needs to know. In addition, the Second Edition was significantly updated and reorganized to better serve the Wildland Fire Fighter I and Wildland Fire Fighter II. The program now features two distinct sections. Section 1 includes six chapters, which set the foundation for Wildland Fire Fighter I knowledge and understanding. Section 2 comprises eight chapters, which encompass the higher-level competencies required for Wildland Fire Fighter II. This new organization will allow instructors the flexibility to teach their Wildland Fire Fighter I and II course(s) exactly the way they wish. The features in this text will help students take that extra step toward becoming outstanding wildland fire fighters. These features include: • Refined Table of Contents. Now divided by level, the new table of contents addresses NFPA and NWCG requirements and objectives in an easy-to-follow manner. • New Chapters. New chapters including The Wildland Fire Service, Wildland/Urban Interface Considerations, Tools and Equipment, Human Resources, and Radio Communications ensure a comprehensive understanding of history, safety, and operations. • Scenario-Based Learning. You are the Wildland Fire Fighter and Wildland Fire Fighter in Action case scenarios are found in each chapter to encourage and foster critical-thinking skills. • Practical Tips for Wildland Fire Fighters. The Listen Up! and Did You Know? features provide helpful advice and encouragement. • Skill Drills. This feature provides written step-by-step explanations and visuals for important skills and procedures. This clear, concise format enhances student comprehension of complex procedures. • After-Action Review Section. The end-of-chapter review includes detailed chapter summaries and key terms to reinforce important principles. • Updated photos and illustrations. New and improved photos and illustrations enhance learning with visuals of incidents and training simulations, as well as highlighting advances i

Canadian Fundamentals of Fire Fighter Skills and Hazardous Materials Response includes Navigate Advantage Access IMO Publishing

Fire service pump operators must have an understanding of the many laws of science that govern the study of hydraulics and water supply in order to be able to handle the complex hydraulic problems that may arise in real world scenarios. The third edition of Fire Protection Hydraulics and Water Supply effectively teaches hydraulics by systematically addressing the underlying science in a way that makes challenging subject matter easier to understand and retain. Readers will be introduced to the basic properties of water and laws of hydraulics and friction loss before learning to apply formulas to calculate flow, friction loss, nozzle reaction, and more. Additionally, readers will progress to learn about: Complex principles of pump operation, including conditions such as end thrust and radial hydraulic balance, the application of Newton's first law of motion as it applies to a kinetic energy pump, and the concept of Enthalpy Various laws of physics, including Pascal's Principle, Bernou

Fire Apparatus Driver/Operator: Pump, Aerial, Tiller, and Mobile Water Supply Jones & Bartlett Learning

Contains an illustrated guide to firefighting, and includes information on hazardous materials, terrorism, and the requirements for passing the Firefighter I and II, and complies with the 2002 standards for firefighting professionals.

Semantic Information Modeling Methodology Jones & Bartlett Learning

This second edition of Fire Apparatus Driver/Operator has been thoroughly updated to serve as a complete training solution that addresses pump operation, safe driving techniques, tiller and aerial apparatus operation, and water supply considerations. From basic apparatus maintenance to fire pump theory and advanced hydraulic calculations, this single manual covers everything a fire service driver/operator needs to know. Fire Apparatus Driver/Operator: Pump, Aerial, Tiller, and Mobile Water Supply, Second Edition meets and exceeds the job performance requirements of Chapters 4, 5, 6, 7, and 10 of NFPA 1002, Fire Apparatus Driver/Operator Professional Qualifications, 2014 Edition. The second edition features: - An emphasis on Driver/Operator safety and responsibility with a dedicated chapter on safety. - Actual Near-Miss Reporting System cases are

discussed to drive home important points about safety and the lessons learned from these real-life incidents. - Detailed step-by-step skill drills which include the corresponding NFPA job performance requirement. - Scenario based learning tools including You are the Driver/Operator, Driver/Operator in Action, and Voices of Experience case studies to encourage critical thinking skills - Driver/Operator Tips and Safety Tips to provide helpful advice from fireground veterans.

Fire Protection Systems includes Navigate Advantage Access Gulf Professional Publishing Take the lead with proven techniques for incident command in Structural Fire Fighting! Working together, NFPA experts Bernard Klaene and Russell Sanders have created a landmark text for fire officers and professionals in training! Structural Fire Fighting presents complete coverage of operational procedures for working structural fires including salvage, ventilation, forcible entry, and rescue. Learn to visualize the vital steps that must be taken to implement the strategic plan--from creating the plan and choosing an offensive or defensive course, to evaluating structural conditions. You'll explore all the issues concerning life safety, extinguishment, property conservation, and special architecture. Find out how the best incident commanders get a handle on the big picture with Structural Fire Fighting.

Fire Fighter Safety and Survival Jones & Bartlett Learning

The Second Edition of this introduction to fire protection systems is completely revised and updated to offer the student, architect or engineer the basics of fire protection devices and equipment, and how they may be applied to any given project. Fire Protection: Detection, Notification, and Suppression reveals the "nuts and bolts" of fire protection system selection, design and equipment in an applied approach. Whether a mechanical engineer, safety engineer, architect, estimator, fire service personnel, or student studying in these areas, the authors show the pros and the cons of protection systems being proposed, and how they should be compared to one another. It also gives non-fire engineering practitioners a sense of proportion when they are put in a position to select a consultant, and to give a sense of what the consultant may be doing and how a system is being matched to the hazard. Beginning fire protection engineers could also use its language for writing a report about these systems for a client.

SFPE Handbook of Fire Protection Engineering Jones & Bartlett Learning

The sixth edition of Introduction to Fire Protection and Emergency Services meets and exceeds the National Fire Academy's Fire and Emergency Services Higher Education (FESHE) course objectives and outcomes for the Associate's (Core) course called Principles of Emergency Services (C0273). The Sixth Edition delivers future fire service candidates a head start in the competitive selection process by familiarizing students with the selection and training process. In addition, the Sixth Edition provides a comprehensive and concise overview of the broad spectrum of the fire service, from the primary duties of the modern fire department, to emergency incident management, to fire prevention, to department administration. The Sixth Edition reinforces foundational knowledge, including the history and future of the fire service; the chemistry and physics of fire; issues facing the fire and rescue service in the United States; and careers in the fire and emergency services. The entire range of services of the modern fire service is explored, including emergency medical services, hazardous materials response, wildland fires, swiftwater rescue, and urban search and rescue. The Sixth Edition includes: An emphasis on safety and professionalism, which is reinforced through discussions of incident effectiveness, fire fighter ethics, customer service, physical fitness, training, decision making, fire prevention, and behavioral health Organizations that support the fire service are highlighted, including: Firefighter Behavioral Health Alliance. Firefighter Cancer Support Network. Leary Firefighter Foundation Discussions on Post-Traumatic Stress Disorder (PTSD) and Repeated Exposure to Trauma (RET) and their effects on fire fighters An expanded discussion of the possible future effects of climate change and the effect on the fire and rescue service

Fire Pump Arrangements at Industrial Facilities CRC Press

"This resource provides you with the up-to-date information required to meet the modern job performance requirements for the Fire Service Instructor I and II as outlined by the National Fire Protection Association's 2007 edition of (NFPA*) 1041, Standard for Fire Service Instructor Professional Qualifications."--BOOK JACKET.

Wildland Fire Fighter: Principles and Practice Springer

This book describes a methodology for enabling interoperability of systems by modeling information such that it can be queried, stored and exchanged between systems in a system independent way. It is based on the use of formalized natural languages and provides guidance on the modeling of definitions, knowledge and requirements as well as modeling of individual products and processes.