



# FIRE PROTECTION HYDRAULICS AND WATER SUPPLY ANALYSIS

Third Edition

by Pat D. Brook



FIRE PROTECTION PUBLICATIONS OKLAHOMA STATE UNIVERSITY



# Fire Protection Hydraulics Water Supply

**Pat D. Brock**



## **Fire Protection Hydraulics Water Supply:**

**Fire Protection Hydraulics and Water Supply, Revised Third Edition** William F. Crapo, 2021-10-20 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 Fire Service Hydraulics and Water Supply Michael A. Wieder, 2004 **Fire Service Hydraulics and Water Supply** Wieder, IFSTA, 2010 The ability to find a sufficient water supply and use it effectively to control a fire remains one of the most basic functions of the fire service This text provides detailed information on the principles of water and its movement determining accurate discharge pressures and fire flows the types of apparatus and pumps used to move water and effective means for supporting fixed fire protections systems This second edition has been redesigned to include up to date photos and illustrations This manual was written to meet all of the FESHE model course objectives for the fire protection hydraulics course The Instructor Disk was completely overhauled and provides much improved instructor outlines PowerPoint R presentations and test questions Fire Protection Hydraulics and Water Supply Analysis Oklahoma State University, International Fire Service Training Association, Fire Protection Publications, 2000-01-01 **Fire Protection Hydraulics and Water Supply Analysis** Pat Brock, Virginia Charter, 2026-01-05 This new edition features the most up to date references on fire protection water supply demands aligned to match the requirements of the latest codes and standards The book retains its class tested presentation of concepts and applications for students of fire protection engineering and fire science and its importance as single source reference for practicing engineers design professionals fire marshals and insurance industry personnel working in the areas of water supply or sprinkler analysis and design The authors cover the characteristics of water and the principles of hydrostatics and hydrokinetics and explain how to determine friction loss within water systems test water supply systems and prepare hydraulics calculations The text also gives methods for testing and inspecting fire pump installations *Fire Protection Hydraulics and Water Supply Analysis* Pat D. Brock, 1990 **Fire Service Hydraulics** Dick Sylvia, 1970-01-01 This time honored classic has been used to help instruct personnel throughout the country in the science and art of fire service hydraulics The fundamentals of hydraulics are unchanging Topics discussed include water distribution systems friction loss calculations discharge and nozzle pressures fire streams standpipe systems sprinkler systems and foam systems

**Navigate 2 Advantage Access for Fire Protection Hydraulics and Water Supply** William F. Crapo, **Fire Protection Hydraulics and Water Supply Instructor's Toolkit CD** William F. Crapo, 2016-03-03 Preparing for class is easy with the resources on the Instructor's Toolkit CD The CD includes the following resources Adaptable PowerPoint presentations that provide instructors with a powerful way to create presentations that are educational and engaging to their students These slides can be modified and edited to meet instructors specific needs Image and Table Bank Offers a selection of the most important images and tables found in the text Instructors can use these graphics to incorporate more images into

the PowerPoint presentations make handouts or enlarge a specific image for further discussion Detailed lesson plans keyed to the PowerPoint presentations with sample lectures lesson quizzes and teaching strategies Test Bank that contains an abundance of multiple choice questions and allows instructors to create tailor made classroom tests and quizzes quickly and easily An answer key with page references to the text is also provided FESHE Correlation Guide that correlates the textbook to FESHE s Fire Protection Hydraulics and Water Supply model curriculum c 2017 *Fire Department Hydraulics* Eugene Mahoney, Eugene Mahoney, Brent E. Hannig, 2012-04-02 Rev ed of Fire department hydraulics Eugene Mahoney Brent E Hannig 2009 BOOK ALONE: FIRE PROTECTION HYDRAULICS and WATER SUPPLY 3E Jones & Bartlett Learning, LLC, 2015-12-14 Fire Protection Hydraulics and Water Supply Revised Third Edition Advantage Package includes Content Instruction Student Learning Materials Textbook Assessments Flashcards eBook Analytics Slides Available in most packages contact us to confirm availability 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 Based on the Fire and Emergency Services in Higher Education FESHE model curriculum for Fire Protection Hydraulics Water Supply 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 Bernoulli s Principle and Newton s third law of motion as it applies to the concept of nozzle reaction New and improved formulas for calculating gallons per minute nozzle reaction and more Additionally each chapter now includes Fireground Fact boxes that provide real world context or additional information on important topics Case studies that emphasize a law or principle presented in the text Updated key terms formulas and end of chapter resources Revision Notes Revised table 5 1 Table 5 1 has been revised to include C Factors for all common smooth bore tip sizes The C Factors are necessary for the version of Freeman s Formula used in the book for calculating flow from a smooth bore nozzle The version of Freeman s formula used in Fire Protection Hydraulics and Water Supply Revised 3rd Ed is the same one used in Section 15 Chapter 3 of the 20th edition of the Fire Protection Handbook which is the current Fire Protection Handbook No other current book on fire service hydraulics uses this version of Freeman s Formula All other hydraulic books used a dumbed down version of Freeman s Formula that doesn t use C Factors The C Factors in table 5 1 are used throughout the remainder of this book whenever the flow from a smooth bore nozzle is needed to solve a problem Revised table 6 1 Table 6 1 contains Conversion Factors necessary when finding friction loss in various size hose The revised

Table 6 1 in Fire Protection Hydraulics and Water Supply Revised 3rd Ed has added a third column with conversion factors to be used when calculating friction loss using the abbreviated formula as explained in Chapter 6 The Conversion Factors from table 6 1 are used throughout the remainder of this book whenever FL 100 must be calculated 2022 320 pages **Fire Service Hydraulics & Pump Operations, 2nd Ed** Paul Spurgeon, 2017-08-04 Understanding hydraulics and pump operations doesn't have to be difficult and it is of key importance to the science of fire engineering Putting all the pieces together correctly so that the right stream is brought to the fire is essential to effective fireground operations In the second edition of Fire Service Hydraulics and Pump Operations author Paul Spurgeon engineer pump operator with the Denver Fire Department breaks down the sometimes difficult to understand formulas of hydraulics and pumps into easily learned steps taking care to explain the hows and whys of each formula discussed Using an in the street practical approach Spurgeon teaches readers how to develop proper fire streams as well as how they relate to overall fireground strategies He covers hydraulics and pumps extensively from the properties of water to its supply to pumping to sprinkler systems and foams So readers can put what they've learned into practice Spurgeon provides both end of chapter tests and practice sets at the end of the book complete with answers so that readers can check their knowledge The second edition includes numerous updates and additions including the Rule of Thumb chapter that illustrates how to perform these complex calculations while under stress on the fireground This text meets the learning objectives for FESHE Fire Protection Hydraulics and Water Supply course work Features and Benefits Summary of chapter formulas End of chapter tests with answers Practice sets with answers to further test your understanding **Fire Protection and Water Supply ...**, 1892 **Fire Apparatus Driver/Operator** Ifaf, 2015-06-22 This second edition of Fire Service Pump 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 Service Pump Operator Pump Aerial Tiller and Mobile Water Supply Second Edition meets and exceeds the job performance requirements of Chapters 4 5 and 10 of NFPA 1002 Fire Apparatus Driver Operator Professional Qualifications 2014 Edition It also addresses all of the course outcomes from the National Fire Academy's Fire and Emergency Services Higher Education FESHE Associates Core Fire Protection Hydraulics and Water Supply course *Distribution System Requirements for Fire Protection* AWWA Staff, 2008 *Bacteriology; Hydraulics; Water supply* American School (Lansing, Ill.), 1912 *Fire Service Hydraulics* James F. Casey, 1970 **Auxiliary Water Supply System for Fire Protection** San Francisco (Calif.). Department of Public Works, 1908 **A Practical Treatise on Hydraulic and Water-supply Engineering** John Thomas Fanning, 1882 *A Practical Treatise on Hydraulic and Watersupply Engineering* John Thomas Fanning, 1899

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