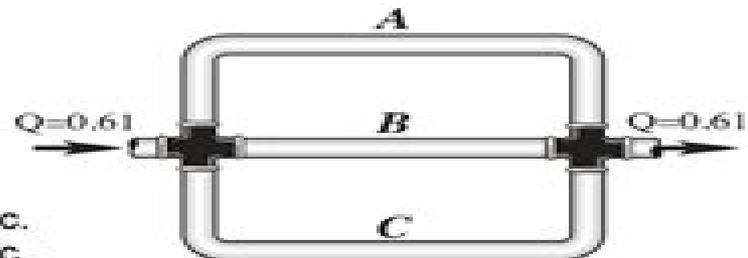


PROBLEM 2-4:

Three pipes A, B and C are connected in parallel. If the combined discharged of the 3 pipes is equal to $0.61 \text{ m}^3/\text{s}$, and assuming they have equal values of friction factor "f", compute the following using the tabulated data shown:

PIPELINE	LENGTH	DIAM.
A	600 m.	150 m.
B	480 m.	200 m.
C	750 m.	100 m.



- ① Compute the rate of flow of pipeline A in li/sec.
- ② Compute the rate of flow of pipeline B in li/sec.
- ③ Compute the rate of flow of pipeline C in li/sec.

Solution:

- ① *Rate of flow of pipeline A:*

$$hf_A = hf_B = hf_C$$

$$\frac{0.0826 f L_A Q_A^2}{(D_A)^5} = \frac{0.0826 f L_B Q_B^2}{(D_B)^5}$$

$$\frac{600 Q_A^2}{(0.15)^5} = \frac{480 Q_B^2}{(0.2)^5}$$

$$Q_A = 0.436 Q_B$$

$$Q_B = 2.295 Q_A$$

$$\frac{600 Q_A^2}{(0.15)^5} = \frac{750 Q_C^2}{(0.10)^5}$$

$$Q_A = 3.08 Q_C$$

$$Q_C = 0.325 Q_A$$

$$Q_A + Q_B + Q_C = 0.61$$

$$Q_A + 2.295 Q_A + 0.325 Q_A = 0.61$$

$$Q_A = 0.17 \text{ m}^3/\text{s} = \mathbf{170 \text{ liters/sec.}}$$

- ② *Rate of flow of pipeline B:*

$$Q_B = 2.295 Q_A$$

$$Q_B = 2.295(0.17)$$

$$Q_B = 0.39 \text{ m}^3/\text{s}$$

$$Q_B = \mathbf{390 \text{ liters/sec.}}$$

- ③ *Rate of flow of pipeline C:*

$$Q_C = 0.325 Q_A$$

$$Q_C = 0.325 (0.17)$$

$$Q_C = 0.05 \text{ m}^3/\text{s} = \mathbf{50 \text{ liters/sec.}}$$

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Handbook on Thermal Hydraulics in Water-Cooled Nuclear Reactors Francesco D'Auria, Yassin A. Hassan, 2024-07-29 Handbook on Thermal Hydraulics of Water Cooled Nuclear Reactors Volume 3 Procedures and Applications includes all new chapters which delve deeper into the topic adding context and practical examples to help readers apply learnings to their own setting Topics covered include experimental thermal hydraulics and instrumentation numerics scaling and containment in thermal hydraulics as well as a title dedicated to good practices in verification and validation This book will be a valuable reference for graduate and undergraduate students of nuclear or thermal engineering as well as researchers in nuclear thermal hydraulics and reactor technology engineers working in simulation and modeling of nuclear reactors and more In addition nuclear operators code developers and safety engineers will also benefit from the practical guidance provided Presents a comprehensive analysis on the connection between nuclear power and thermal hydraulics Includes end of chapter questions quizzes and exercises to confirm understanding and provides solutions in an appendix Covers applicable nuclear reactor safety considerations and design technology throughout **Understanding Hydraulics** Les Hamill, 2017-09-16 Covering all the fundamental topics in hydraulics and hydrology this textbook is an accessible thorough and trusted introduction to the subject The text builds confidence by encouraging readers to work through examples try simple experiments and continually test their own understanding as the book progresses This hands on approach aims to show students just how interesting hydraulics and hydrology is as well as providing an invaluable reference resource for practising engineers There are numerous worked examples self test and revision questions to help students solve problems and avoid mistakes and a question and answer feature to keep students thinking and engaging with the text The text is essential reading for undergraduates from pre degree through all undergraduate level courses and for practising engineers around the world New to this Edition Updates on climate change flood risk management flood alleviation design considerations when developing greenfield sites and the design of storm water sewers A new chapter on sustainable storm water management referred to as sustainable drainage systems SUDS in the UK including their advantages and disadvantages the design of components such as permeable and porous pavements swales soakaways and detention ponds and flood routing through storage reservoirs **A Text-book of Applied Mechanics and Mechanical Engineering ...: Hydraulics, hydraulic and refrigerating machinery, with pneumatic tools** Andrew Jamieson, 1909 [Hydraulics of Pipe Lines](#) William Frederick Durand, 1921 *GATE Question Bank - Environmental Science & Engineering* Mocktime Publication, 2400 MCQs GATE Environmental Science Engineering Chapterwise Question Bank Based on New Syllabus **Hydraulics of Open Channel Flow** Hubert Chanson, 2004-05-25 Since the publication of its first edition in 1999 The Hydraulics of Open Channel Flow has been praised by professionals academics students and researchers alike as the most practical modern textbook on open channel flow available This new edition includes substantial new material on hydraulic

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tucked her in till just her head showed..." the use of 'tucked her in' expresses a calm and cozy tone which contrasts with the ... Figurative Language In Truman Capote's In Cold Blood One example of imagery is used in line 5 "I'm stone. I'm flesh." The narrator is using metaphoric and literal imagery describing his body. The reader can ... Metaphor, Make-believe and Misleading Information in ... Sep 10, 2022 — Packed with metaphor, language play and allegory - such as that found in the noted tomcat extract above - In Cold Blood can surely only ever be ... Rhetorical Strategies Mar 7, 2011 — However, one of the most important rhetorical devices written in the novel is in the form of a metaphor: "He and Dick were 'running a race ... In Cold Blood - LitDevices.com Jul 1, 2019 — The author uses vivid imagery to create a sense of place and atmosphere, such as when he describes the Clutter home as "a home with absolutely ... Language Devices In Truman Capote's In Cold Blood Truman Capote uses variety of language devices to vividly develop Perry Smith in his novel In Cold Blood. These language devices include, diction, similes ... Forensic Investigative Accounting 5th Edition Grumbley ... Full Download Forensic Investigative Accounting 5th Edition Grumbley Test Bank - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Forensic Investigative Accounting 5th - Test Bank Forensic Investigative Accounting 5th. Edition Grumbley Test Bank. Visit to download the full and correct content document: Forensic and Investigative Accounting Test Bank - buy online This book reveals how forensic and investigative accounting works. Students get familiar with accounting methods, criminology, investigative auditing methods, ... Test Bank for guide to computer forensics and ... View Test prep - Test Bank for guide to computer forensics and investigations 5th edition sample from ACC 1233 at Masaryk University. Forensic And Investigative Accounting 5th Edition Solution Nov 2, 2023 — The book also has some coverage on using Minitab, IDEA, R, and Tableau to run forensic-focused tests. The use of SAS and Power BI rounds out ... Forensic and Investigative Accounting Crumbley 4 Test Bank -Financial Accounting Theory, 5th edition, Scott, W.R. SM -Supply Chain ... I am interested in both the solution manual and test bank for "Forensic and ... Forensic & Investigative Accounting (Fifth Edition) A complete and readily teachable text on today's most timely accounting topics. The growing area of forensic accounting in which the knowledge, ... Test Bank - Forensic accounting and fraud examination - ... Test bank project for Forensic Accounting and Fraud Examination (2nd Ed.) by Mary-Jo Kranacher and Dick Riley Test bank written by Brian L. Carpenter, PhD, ... Forensic investigative accounting 5th edition grumbley test ... Nov 7, 2023 — 9. Expert testimony must be based upon sufficient facts or data. *a. True b. False. 10. Evidence may not be excluded on grounds of prejudice, ... Ford 601 Service Manual This is a Service Manual for the Ford 601 with 422 pages of important information pertaining to your Ford tractor. Full Description: 601 Gas, LP and Diesel ... Ford 601 & 801 Series Tractors - Owner's Manual - 1957.pdf www.ntractorclub.com. Page 2. www.ntractorclub.com. Page 3. www.ntractorclub.com. Page 4. www.ntractorclub.com. Page 5. www.ntractorclub.com. Page 6 ... Service Manual for Ford 600 900 601 1801 Tractor Repair ... Buy Service Manual for Ford 600 900 601 1801 Tractor Repair Shop Gas & Diesel: Spare & Replacement Parts - Amazon.com ☐ FREE DELIVERY possible on eligible ... Ford Service

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