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Solution We are to decide if the specific weight is an extensive or intensive property. Analysis The original specific weight is $1 = W/V$ If we were to divide the system into two halves, each half weighs $W/2$ and occupies a volume of $V/2$. The specific weight of one of these halves is $= (1/2)W/(V/2)$ which is the same as the original specific weight.

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Solution. Assumptions. 1 The fluid is a Bingham plastic with $\tau = \tau_y + \mu (du/dr)$ where τ_y is the yield stress. 2 The flow through the pipe is one-dimensional.

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This text provides balanced coverage of the basic concepts of thermodynamics and heat transfer. Together with the illustrations, student-friendly writing style, and accessible math, this is an ideal text for an introductory thermal science course for non-mechanical engineering majors.

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Written by experts, Indoor Air Quality Engineering offers practical strategies to construct, test, modify, and renovate industrial structures and processes to minimize and inhibit contaminant formation, distribution, and accumulation. The authors analyze the chemical and physical phenomena affecting contaminant generation to optimize system function and design, improve human health and safety, and reduce odors, fumes, particles, gases, and toxins within a variety of interior environments. The book includes applications in Microsoft Excel®, Mathcad®, and Fluent® for analysis of contaminant concentration in various flow fields and air pollution control devices.

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