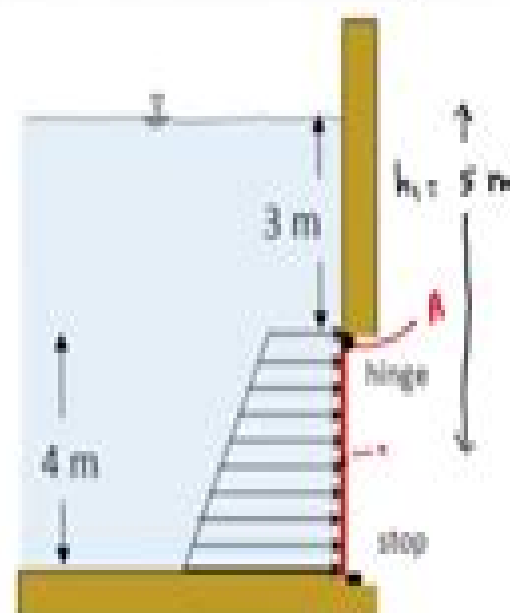


Calculate the force that the "stop" must exert on the bottom of the gate to hold the water back.



$$P = \frac{F_R}{A}$$

$$P = \rho g h$$

$$\rho = 1000 \text{ kg/m}^3$$

$$F_R = P \cdot A$$

$$= \rho \cdot A \cdot h$$

$$= \rho \cdot g \cdot h \cdot A$$



$$\sum M_i = 0;$$

$$F_R \cdot x - F_S \cdot 4 = 0$$

$$\Rightarrow F_S = \frac{F_R \cdot x}{4} \Rightarrow F_S = \frac{F_R \cdot x}{4}$$

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**Philip M. Gerhart, Richard J. Gross**



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is a fluid mechanics text for geologists it provides an introductory treatment of the physical and dynamical behaviour of fluids aimed at students who need to understand fluid behaviour and motion in the context of a wide variety of geological problems

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between experts in petroleum who have devoted their time to the lucid expression of the knowledge that they have acquired through experience in the evaluation and solution of field problems and development of economic field processes Oil production companies have been generous in their cooperation through assistance and encouragement to the authors and permission to publish data designs and photographs Together the two books provide a detailed and comprehensive coverage of the subject The physical and chemical properties of the fluids encountered by engineers in the field are clearly described The properties methods of separation measurement and transportation of these fluids gases condensate liquids derived from natural gas crude oils and oilfield waters are dealt with Following a presentation of the fluids and their process technology a series of chapters give a thorough discussion of every type of surface equipment that is encountered in the myriad aspects of oilfield operations ranging from waterflooding to new enhanced oil recovery techniques Included are all methods for pumping water control production logging and corrosion control The coverage also extends to well completion and work over operations methods for design and operation of underground gas storage and a review of offshore technology Surface Operations in Petroleum Production is therefore a comprehensive reference which will be invaluable for field production managers and engineers as well as being an ideal text on production technology to complement the study of reservoir engineering

**Modern Fluid Dynamics** Clement Kleinstreuer, 2010-05-21 This textbook covers essentials of traditional and modern fluid dynamics i e the fundamentals of and basic applications in fluid mechanics and convection heat transfer with brief excursions into fluid particle dynamics and solid mechanics Specifically it is suggested that the book can be used to enhance the knowledge base and skill level of engineering and physics students in macro scale fluid mechanics see Chaps 1 5 and 10 followed by an introductory excursion into micro scale fluid dynamics see Chaps 6 to 9 These ten chapters are rather self contained i e most of the material of Chaps 1 10 or selectively just certain chapters could be taught in one course based on the students background Typically serious seniors and first year graduate students form a receptive audience see sample syllabus Such as target group of students would have had prerequisites in thermodynamics fluid mechanics and solid mechanics where Part A would be a welcomed refresher While introductory fluid mechanics books present the material in progressive order i e employing an inductive approach from the simple to the more difficult the present text adopts more of a deductive approach Indeed understanding the derivation of the basic equations and then formulating the system specific equations with suitable boundary conditions are two key steps for proper problem solutions

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## **Fluid Statics Example Problems** Book Review: Unveiling the Magic of Language

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