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Hicks holds a bachelor's degree in Mechanical Engineering from Cooper Union School of Engineering in New York. He is the author or coauthor of more than 20 books in engineering and related fields, including Civil Engineering Formulas, Handbook of Mechanical Engineering Calculations, Handbook of Energy Engineering Calculations,....

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### Handbook Of Chemical Engineering Calculations

Hicks is the author of more than 20 books in engineering and related fields, including Handbook of Energy Engineering Calculations and Civil Engineering Formulas, Second Edition. Nicholas Chohey (deceased) was Editor-in-Chief at Chemical Engineering magazine, with more than 45 years' experience in engineering and publishing.

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The following equations can be used to predict heat-transfer coefficients for condensation on banks of horizontal tubes: For laminar-film condensation,  $h_{L2} = 0.725 \left( \frac{g}{L} \right)^{1/3} \left( \frac{\mu}{k} \right)^{1/4} \left( \frac{h_c}{h} \right)^{1/4}$  where  $h_c = 0.951$  for triangular tube patterns, 0.904 for rotated square tube patterns, or 0.856 for square tube patterns.

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Calculation Procedure 1. Assume a basis. Assume gas is at standard conditions, that is, 1 g-mol gas at 1 atm (101.3 kPa) pressure and 0 C (273 K, or 492 R), occupying a volume of 22.4 L. 2. Compute the gas constant. Apply suitable conversion factors and obtain the gas constant in various units. Use  $PV = RT$ ; that is,  $R = PV/T$ . Thus, a.

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