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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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horizontal tubes: For laminar-film condensation, $\rho L^2 g n L^{1/3} \mu W N r h c = a k$ where $a = 0.951$ for triangular tube patterns, 0.904 for rotated square tube patterns, or 0.856 for square tube patterns.

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**SECTION 1 PHYSICAL AND
CHEMICAL**

(Perry and Chilton—Chemical
Engineers' Handbook, McGraw-
Hill, 1973.) 1.9 HEAT

CAPACITY OF REAL

GASES Calculate the heat
capacity C_p of ethane vapor
at 400 K (260 F) and 50 atm
(5065 kPa). Also estimate the
heat-capacity ratio C_p / C_v
at these conditions.

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

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1.2 ESTIMATION OF CRITICAL
TEMPERATURE FROM EMPIRICAL
CORRELATION 1.2 1.3 CRITICAL
PROPERTIES FROM GROUP-

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REDLICH-KWONG EQUATION OF
STATE 1.5 1.5 P-V-T
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1.8

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