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In an alternate form, the Redlich-Kwong equation is written as Z = 1/ (1 ? h) ? (A/B) [h / (1 + h)] where h = b/V = B P /Z , B = b/RT, A/B = a /b RT 1.5 , and Z , the compressibility factor, is equal to P V /RT. Calculation Procedure 1. Calculate the Page 8/20

compressibility factor Z.

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General Description. This handbook presents a comprehensive collection of civil engineering calculation procedures useful to practicing civil engineers, surveyors, structural designers, drafters, candidates for professional engineering licenses, and students. Engineers in other disciplines-mechanical, electrical, chemical, environmental, etc.-will also find this handbook useful for making occasional calculations outside their normal field of specialty.

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