



## New Module for deriving Maxwell's Four Relations

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By Alfred Addo-Yobo

GRIN Verlag Gmbh Jan 2014, 2014. Taschenbuch. Book Condition: Neu. 198x45x5 mm. This item is printed on demand - Print on Demand Neuware - Scholarly Research Paper from the year 2013 in the subject Engineering - Chemical Engineering, Kwame Nkrumah University of Science and Technology, language: English, abstract: The four Maxwell s relations are important equations employed mainly in the field of chemical engineering to perform certain computations involving the four thermodynamic potentials, temperature (T), pressure (P), volume (V) and entropy (S) In chemical engineering, the method for deriving these four relations is by employing the Gibbs-Duhem-Margules approach which is somewhat tedious and lengthy. In this paper, we shall explore another module in the derivation of these four Maxwell s relations by employing certain simple techniques with our basis as the mathematical equation of the first law of thermodynamics. 12 pp. Englisch.

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