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Chemical process principles part 1, **Material and Energy Balances.** O. A. Hougen, K. M. Watson, and R. A. Ragatz. Second Edition. John Wiley & Sons, Inc.,

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Chemical Process Principles By Hougen Chemical Process Principles **Hougen O.A., Watson K.M., Ragatz R.A.** New York: John Wiley & Sons, 1952. — 1159 p.In this book only process problems of a chemical and physicochemical nature are treated, and it has been attempted to avoid overlapping into the fields of unit operations and plant design.

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Chemical Process Principles: Material Energy Balances---

Chemical Process Principles, Part 1: Material and Energy Balances, 2nd edition **Hougen, Olaf A., Kenneth M. Watson, and Roland A. Ragatz** Published by **John Wiley and Sons** (1956)

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Chemical Process Principles: Thermodynamics—Olaf Andreas---

In his research activities, Professor Hougen developed important original and fundamental principles for the mainstream of modern chemical engineering: heat transfer, gas adsorption, thermodynamics, catalysis, applied kinetics, and process design.

Hougen Progrmes Chemical and Biological Engineering---

In 1942 the American Chemical Society, under Hougen's chairmanship, sponsored a symposium on the subject. It was during this time that the text **Industrial Chemical Calculations** was revised and extended, giving place to **Material and Energy Balances** as the first part of another work, **Chemical Process Principles**.

NAE Website—Dr. Olaf A. Hougen

Hougen and Kenneth M. Watson were co-authors of the three-volume text titled **Chemical Process Principles (Material and Energy Balances; Thermodynamics; Kinetics & Catalysis)**, which was a milestone in the literature of the profession because of its emphasis on applying the basic principles of mathematics, chemistry and physics to the analysis of ...