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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.

[NAE Website - Dr. Olaf A. 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. The first part deals primarily with the applications of general physical chemistry, thermodynamics, thermochemistry, and the first law of thermodynamics.

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