



FIGURE 1-1. Basic column and nomenclature.

The mathematical approach to finding the degrees of freedom of any process is to total all the variables and subtract the number of independent equations. This is an interesting exercise, but there is a much easier approach. Simply add the total number of rationally placed control valves. The "rationally placed" qualification is to emphasize that we have avoided poorly conceived designs such as the placement of two control valves in series in a liquid filled system.

In Figure 1-1 we see that there are five control valves, one on each of the following streams: distillate, reflux, coolant, bottoms, and heating medium. We are assuming for the moment that the feed stream is set by the upstream unit. So this simple column has 5 degrees of freedom. But inventories in any process always *must* be controlled. Inventory loops involve liquid levels and pressures. In our simple distillation column example, this means that the liquid level in the reflux drum, the liquid level in the base

# Practical Distillation Control

**Henry Z. Kister**



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**A Practical Treatise on Friction, Lubrication, Fats and Oils** Emil Franz Dieterichs, 1916

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**A Real-Time Approach to Process Control** William Y. Svrcek, Donald P. Mahoney, Brent R. Young, 2000-05-02. Offering a simulation based approach.

used by today's industry practitioners of process control this book assumes no prior knowledge of the subject and looks at the role of computers in process control through a simulation based approach The reader is also introduced to HYSYS software a powerful simulation software package that is widely available in universities and used throughout the chemical engineering industry The reader should gain an understanding of how to plan and use simulation software in process control and practical experience through the workshops included at the end of the **Practical Engineer**, 1892 **A Practical Treatise on the Manufacture of Vinegar and Acetates, Cider, and Fruit-wines; Preservation of Fruits and Vegetables by Canning and Evaporation ...** William Theodore Brannt, 1889 Journal of the Federated Institutes of Brewing Institute of Brewing (Great Britain), 1925 **Practical Pharmacy** Edward William Lucas, 1908 Encyclopædia of Chemistry, Theoretical, Practical, and Analytical, as Applied to the Arts and Manufacturers: Acetic acid-gas, 1877

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