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#### **Introduction To Chemical Engineering Computing**

My interest in computing in chemical engineering education began in earnest when I got an Apple II+ computer in the fall of 1979. Here is a Youtube video (Early Apple II+) showing a program my son (in high school) and I made in 1982 showing how you could draw on the screen and do mass balances for systems with recycle.

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Introduction to Chemical engineering computing introduces new comers to the modern tools in solving basic groups of encountered Chem Engg. problems. The book presents samples of the problems needed in school, and as a novice Chem engineer.

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An innovative introduction to chemical engineering computing As chemical engineering technology advances, so does the complexity of the problems that arise. The problemsthat chemical engineers and chemical engineering students face today can no longer be answered with programs written on a case-by-case basis.

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course was established in the Department of Chemical Engineering and given in Winter quarter, 2003, 2004, and 2005, to give beginning juniors a broad introduction to computers. They had already taken a computer science course their freshman year, so the new course concentrated on chemical engineering applications.

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Covering a broad range of disciplines and problems within chemical engineering, Introduction to Chemical Engineering Computing is recommended for both undergraduate and graduate students as well as practicing engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem.

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The programs demonstrated here are Excel, MATLAB, AspenPlus, and FEMLAB. Each chemical engineering application chapter starts with a description of the physical problem in general terms. Then those general terms are put in mathematical context so that the computer can represent them.

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posed in the book Introduction to Chemical Engineering Computing, Bruce A. Finlayson, Wiley (2006-2014). The material mirrors the use of MATLAB in the book, and solves the

#### Introduction to Chemical Engineering Computing: Extension ...

BRUCE A. FINLAYSON, PhD, is Rehnberg Professor Emeritus of Chemical Engineering in the Department of Chemical Engineering of the University of Washington. He is also a former president of the American Institute of Chemical Engineers (AIChE). Among his many accolades and honors, Dr. Finlayson is a recipient of the AIChE's prestigious William H. Walker Award and an elected member of the National ...

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