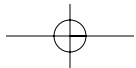
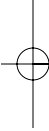
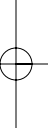


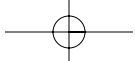
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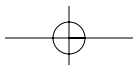
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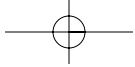
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ABOUT THE AUTHOR

Ernest O. Doebelin has received his B.S., M.S., and Ph.D. degrees in Mechanical Engineering from Case Institute of Technology and Ohio State University, respectively. While working on his Ph.D. at Ohio State University, he started teaching as a full-time instructor, continuing this activity for four years. Upon completion of his Ph.D., he continued teaching as Assistant Professor. At this time (1958), required courses in control were essentially unheard of in mechanical engineering, but the department chair encouraged Dr. Doebelin to pursue this development. Over the years, he initiated, taught, and wrote texts for eight courses in system dynamics, measurement, and control, ranging from sophomore level to Ph.D. level courses. Of these courses, seven had laboratories, which Dr. Doebelin designed, supervised the construction of, and taught. Throughout his career, he continued to actually teach in all the laboratories in addition to training graduate-student assistants. In an era when one could opt for an emphasis on teaching, rather than contract research, and with a love of writing, he published 11 textbooks: *Dynamic Analysis and Feedback Control* (1962); *Measurement Systems* (1966); *System Dynamics: Modeling and Response* (1972); *Measurement Systems, Revised Edition* (1975); *System Modeling and Response: Theoretical and Experimental Approaches* (1980); *Measurement Systems, 3rd edition* (1983); *Control System Principles and Design* (1985); *Measurement Systems, 4th edition* (1990); *Engineering Experimentation* (1995); *System Dynamics: Modeling Analysis, Simulation, Design* (1998); and *Measurement Systems, 5th edition* (2004). Student manuals for all the laboratories, plus condensed, user-friendly software manuals were also produced.

The use of computer technology for system analysis and design, and as embedded hardware/software in operating control and measurement systems, has been a feature of all his texts, beginning with the first analog computers in the 1950s and continuing to today's ubiquitous PC. Particularly emphasized was the use of dynamic system simulation software as a powerful teaching/learning tool in addition to its obvious number-crunching power in practical design work. This started with the use of IBM's CSMP, and gradually transitioned into the PC versions of MATLAB/SIMULINK. All the texts tried to strike the best balance between theoretical concepts and practical implementation, using myriad examples to familiarize readers with the "building blocks" of actual systems, vitally important in an era when many engineering students are "computer savvy" but often unaware of the available control and measurement hardware.

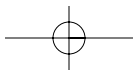
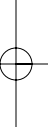
In a career which emphasized teaching, Dr. Doebelin was fortunate to win many awards. These included several departmental, college, and alumni recognitions, and the university-wide distinguished teaching award (five selectees yearly from the entire university faculty). The ASEE also presented him with the Excellence in Laboratory Instruction Award. After his retirement in 1990, he continued to



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About the Author

maintain a full-time teaching schedule of lectures and laboratories, but only for one quarter each year. He also worked on a volunteer basis at Otterbein College, a local liberal arts school, developing and teaching a course on Understanding Technology. This was an effort to address the nationwide problem of technology illiteracy within the general population. As a further “hobby” of retirement, he has become a politics/economics junkie, focusing particularly on alternative views of globalization.



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