



# Advanced AC Electronics: Principles and Applications (Herrick & Jacob Series)

*By J. Michael Jacob*

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From the moment they open *Advanced AC Electronics: Principles and Applications*, readers will become actively involved in learning how to apply AC circuit techniques to electronics circuits that are interesting and actually do something useful! Rather than presenting AC electronics as a series of seemingly magical rules and incantations, this book integrates AC circuit theory tools with electronics, interweaves topics as needed, and introduces the use of circuit analysis tools on a just-in-time basis to support development of electronics circuits. It engages readers in applying circuit theory to a wide variety of passive and active electronics that respond to a sinusoidal signal with both a change in magnitude and a shift in the sine wave's phase. Immediately upon introduction, each technique is applied to a host of examples, including: commercial electrical power production and distribution, industrial motor performance and control, audio systems, instrumentation, radio frequency, and communications circuits. Motors, rf and audio cables, loudspeakers, thyristors, transition and op amp amplifiers are also introduced early on, capturing attention while guiding readers in their examination of real-world responses to sinusoids. Level and rigor make *Advanced AC Electronics* an ideal choice for programs accredited by the Accreditation Board for Engineering and Technology (ABET).

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### About the Author

J. Michael Jacob has published several internationally popular texts on analog integrated circuits and industrial control electronics, as well as a variety of papers and conference presentations on the art and technology of teaching. Professor Jacob's teaches at Purdue University and has received a number of awards and honors, including the Purdue University's undergraduate teaching award (the Amoco award), the Paradigm Award from the Minority Technology Association and the Joint Services Commendation Medal (for excellence in instruction) from the Secretary of Defense. In 1999 he was listed in Purdue University's Book of Great Teachers. He has taught at Purdue for 25 years and at Florence Darlington Technical College in South Carolina for seven years. Mr. Jacob has six years of industrial experience as a test engineer in the automotive and aerospace industries.

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