



# Passive and Active Filters: Theory and Implementations

*Wai-Kai Chen*

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## **Passive and Active Filters: Theory and Implementations** Wai-Kai Chen

This concise text for a one-semester, graduate-level course in passive and active filters develops the fundamental principles of active and passive network synthesis as related to practical design considerations. Drawing an excellent balance between theoretical development and examples of modern applications, it covers fundamentals of network synthesis, filter approximation and frequency transformations, passive filter synthesis, design of resistively terminated networks, active filter synthesis, sensitivity, the active biquad, realization of active two-port networks, design of broadband matching networks, and more.

An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

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