



Integrated Circuits for Analog Signal Processing

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This book presents theory, design methods and novel applications for integrated circuits for analog signal processing. The discussion covers a wide variety of active devices, active elements and amplifiers, working in voltage mode, current mode and mixed mode. This includes voltage operational amplifiers, current operational amplifiers, operational transconductance amplifiers, operational transresistance amplifiers, current conveyors, current differencing transconductance amplifiers, etc. Design methods and challenges posed by nanometer technology are discussed and applications described, including signal amplification, filtering, data acquisition systems such as neural recording, sensor conditioning such as biomedical implants, actuator conditioning, noise generators, oscillators, mixers, etc.

- Presents analysis and synthesis methods to generate all circuit topologies from which the designer can select the best one for the desired application;
- Includes design guidelines for active devices/elements with low voltage and low power constraints;
- Offers guidelines for selecting the right active devices/elements in the design of linear and nonlinear circuits;
- Discusses optimization of the active devices/elements for process and manufacturing issues of nanometer technology.

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