

THE ELECTRONICS OF RADIO

This innovative book provides a stimulating introduction to analog electronics by analyzing the design and construction of a radio transceiver. Essential theoretical background is given at each step, along with carefully designed laboratory and homework exercises. This structured approach ensures a good grasp of basic electronics as well as an excellent foundation in wireless communications systems.

The author begins with a thorough description of basic electronic components and simple circuits. He then goes on to describe the key elements of radio electronics, including filters, amplifiers, oscillators, mixers, and antennas. In the construction and testing of a popular radio transceiver (the NorCal 40A), thereby illustrating and reinforcing the theoretical material. The widely known circuit simulation software, *Puff*, may be downloaded from the book's website, <http://www.cambridge.org/us/9780521646451>.

This is the first book to deal with elementary electronics in the context of radio. It can be used as a textbook for introductory analog electronics courses, or for more advanced undergraduate classes on radio-frequency electronics. It will also be of great interest to electronics hobbyists, radio enthusiasts, and to anyone who wants to find out more about the field of wireless communications.

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Previous printings of this book included a diskette containing the
Puff 2.1 software. That software is now available as a free download
from <http://www.cambridge.org/us/9780521646451>.

*To my children
Robb, Kate, and Alan*

The first rule of tinkering is to keep all the pieces.

– Aldo Leopold