Communications Receivers by T. T. N. Bucher

A Valuable Source Of Information On Communications Receivers

A sourcebook on receiver design, dealing with all manner of receivers: shortwave, military, broadcast and direction-finding. It covers specific design approaches, circuitry and components, as well as the use of microprocessors and logic devices. This edition updates the older chapters.

My Personal Review:
I pass along the review by Karl-Otto Müller in News from Rohde & Schwarz, Number 157 (1998/I):
This book is the revised edition of a comprehensive work on receiver design that first appeared in 1988. Following a general introduction to radio reception technology and a historical review, it looks at the principles of the major parts of a receiver and gives a wealth of details about designing them. For every aspect there are examples of circuits that have already been built and tried in practice. There is also a whole section on receiving antennas that is very well worth reading.
Revision naturally focused on those areas where there have been the biggest technical advances in recent years, in frequency synthesis and the application of digital signal processing. But a comparison of the two editions shows that the earlier one still reflects the state of the art in very many respects, especially in the case of the analog high-tech solutions presented for mixers, for instance.
The book is divided into ten chapters, each finishing with many useful recommendations for further reading. This makes up for the fact that the book itself, because of its wide-ranging subject matter, cannot go into everything in depth. Overall the book is a valuable source of information for anyone involved in designing communications receivers.

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