1. Record Nr. UNINA9910624314003321

Autore	Dvornikov Sergey Viktorovich
Titolo	Amplifiers in Radio Receivers : Characteristics, Operating Principles, and Efficiency / / by Sergey Viktorovich Dvornikov, Alexander Fedotovich Kryachko, Igor Anatolyevich Velmisov, Dmitry Alexandrovich Zatuchny
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-19-6215-4
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (259 pages)
Collana	Springer Aerospace Technology, , 1869-1749
Disciplina	621.381535
Soggetti	Measurement Measuring instruments Telecommunication Aerospace engineering Astronautics Signal processing Measurement Science and Instrumentation Microwaves, RF Engineering and Optical Communications Aerospace Technology and Astronautics Digital and Analog Signal Processing Signal, Speech and Image Processing Communications Engineering, Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Chapter 1. Technical characteristics and block diagrams of radio receivers -- Chapter 2. Noise ratios in the receiving devices -- Chapter 3. Circuit fundamentals of input circuits and selective amplifiers -- Chapter 4. Selective amplifiers. Principles of optimization of their parameters -- Chapter 5. Multi-stage single-circuit selective amplifiers -- Chapter 6. Frequency converters -- Chapter 7. Low-noise amplifiers -- Chapter 8. Radio signal detectors -- Chapter 9. Adjustments in radio receivers -- Chapter 10. Digital radio devices.
Sommario/riassunto	This book presents the basics of building various types of amplifiers, the most widely used in the composition of modern specialized radio

receivers, as well as the principles of building digital radio receivers. The rapid development of modern telecommunications systems, aviation equipment, and space systems for various functional purposes, as well as new information technologies, is inextricably linked with the theory of building radio receivers. Radio receivers are an integral part of the radio line, which largely determine the quality of its operation, both in normal operating conditions and in a complex interference environment. Since the creation of the first lightning detector in 1895, the technique of radio receiving devices went a long way to the development of modern automated digital systems. .