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Autore	Blaunstein Nathan
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Section I. Mathematical foundations for radio engineering -- Section II. Introduction to classical electrodynamics -- Section III. Guiding structures and guiding waves -- Section IV. Antenna fundamentals -- Section V. Radar fundamentals.
Sommario/riassunto	The book introduces the basic foundations of high mathematics and vector algebra. Then, it explains the basic aspects of classical electrodynamics and electromagnetism. Based on such knowledge readers investigate various radio propagation problems related to guiding structures connecting electronic devices with antenna terminals placed at the different radar systems. It explains the role of antennas in process of transmission of radio signals between the terminals. Finally, it shows the relation between the main operational characteristics of each kind of radar and the corresponding knowledge obtained from the previous chapters.