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| Autore                  | Blaunstein Nathan  |
| Titolo                  | Introduction to radio engineering / / Nathan Blaunstein, Christos Christodoulou, and Mikhail Sergeev   |
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| Edizione                | [1st ed.]  |
| Descrizione fisica      | 1 online resource (295 pages) : illustrations  |
| Disciplina              | 621.384  |
| Soggetti                | Radio - Equipment and supplies<br>Radar - Equipment and supplies<br>Electromagnetism   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| 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. |