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| 1. Record Nr.           | UNINA9910483585303321  |
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| Titolo                  | Signal Polarization Selection for Aircraft Radar Control : Models and Methods / / by Nikolay Kondratyevich Yurkov, Alexey Yevgenyevich Bukharov, Dmitry Alexandrovich Zatuchny   |
| Pubbl/distr/stampa      | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021   |
| ISBN                    | 981-334-964-6  |
| Edizione                | [1st ed. 2021.]  |
| Descrizione fisica      | 1 online resource (153 pages)  |
| Collana                 | Springer Aerospace Technology, , 1869-1749   |
| Disciplina              | 621.3822   |
| Soggetti                | Aerospace engineering<br>Astronautics<br>Signal processing<br>Mathematical physics<br>Mathematics - Data processing<br>Aerospace Technology and Astronautics<br>Signal, Speech and Image Processing<br>Theoretical, Mathematical and Computational Physics<br>Computational Mathematics and Numerical Analysis   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di contenuto       | Chapter 1. General principles of system analysis of the problems of radar contrast increment control processes -- Chapter 2. Synthesis of signal's polarization selection system with the background of passive noise formed by reflections from distributed targets -- Chapter 3. Primary ways of technical implementation of developed selection system and methods of device's error minimizing -- Chapter 4. Experimental test of theoretical results. |
| Sommario/riassunto      | This book highlights the synthesis of polarization selection system in the background of passive noise formed by reflections from space-distributed targets. This synthesis is fulfilled as close as possible to its ideal configuration in terms of maximal signal-to-noise ratio for the matched load of radar station antenna system. It presents a new approach to radar system resolution enhancement based on the                                    |

development of mathematical model for radiometric receivers with mono-pulse antenna systems, as well as creation of a new algorithm that allows increasing angular resolution during the object's search and tracking due to special signal processing. .

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