1. Record Nr. UNINA9910457539503321 Autore Malyshev V. V (Veniamin Vasilevich) **Titolo** Optimization of observation and control processes [[electronic resource] /] / Veniamin Vasilyevich Malyshev, Mihkail Naumovich Krasilshikov, Valeri Ivanovich Karlov Washington, D.C., : American Institute of Aeronautics and Astronautics, Pubbl/distr/stampa Inc., c1992 1-60086-222-5 **ISBN** 1-60086-094-X Descrizione fisica 1 online resource (361 p.) **Education series** Collana Altri autori (Persone) KrasilshchikovM. N (Mikhail Naumovich) KarlovV. I (Valerii Ivanovich) 629.47/4 Disciplina Soggetti Space vehicles - Control systems - Design and construction Navigation (Astronautics) Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references (p. 329-335) and index. ""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; Nota di contenuto ""Chapter 1. Probabilistic Criterion in Problems of Observation and Control"": ""1.1. General Statement of Probabilistic Problems"": ""1.2. Concretization of the Quality Functional in Problems of Observation and Control""; ""1.3. Numerical Algorithms for Finding Functionals of Probability and Quantile""; ""Chapter 2. Optimal Design of the Observation Process: Stochastic Approach""; ""2.1. Formalization of Design Problems as the Program Control Problems""; ""2.2. Equivalent Problems of Program Control"" ""2.3. Necessary Conditions of Optimality on the Basis of Maximum Principle"""2.4. Numerical Algorithms of Optimal Measurement Plan Construction""; ""2.5. Connection of Equivalent Problems with Dual-Control Problems"; ""2.6. Extension of Results to a Discrete Case""; ""Chapter 3. Optimal Filtering and Optimal Design of the Observation Process: Guaranteeing Approach""; ""3.1. Experiment Model: Basic Variants of Error Description""; ""3.2. Solution of Optimal Filtering and

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