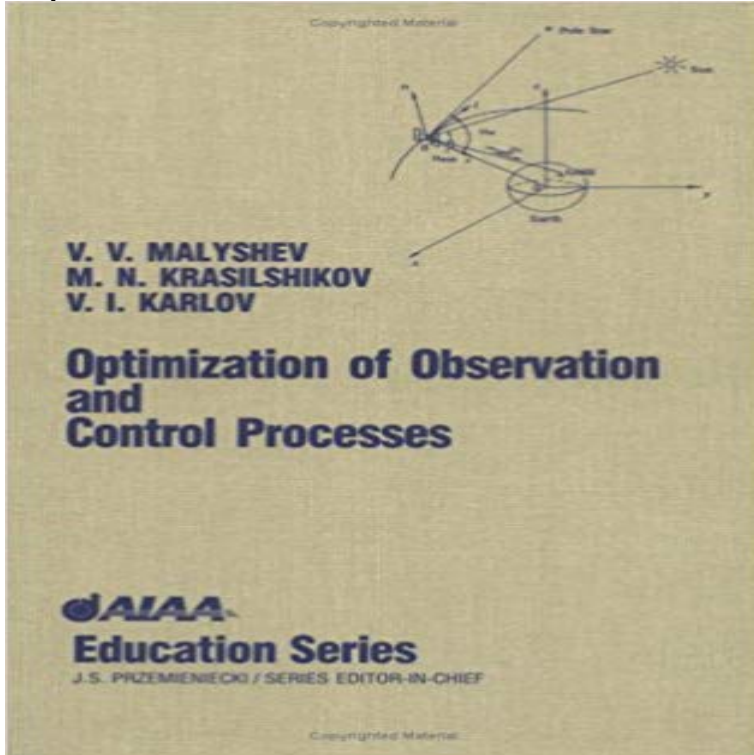


Optimization of Observation and Control Processes (AIAA Education)



This book generalizes the classic theory of the regression experiment design in the case of Kalman-type filtering in controllable dynamic systems. A new approach is proposed for optimization of the measurable parameters structure, of navigation mean modes, of the observability conditions, of inputs for system identification, etc. The developed techniques are applied for enhancing efficiency of spacecraft navigation and control.

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Control Processes, AIAA Education Series, pp. 197-256. <https://10.2514/5.9781600862229.0197.0256>AIAA Education Series. Optimization Of Observation And Control Processes no access, 29. Optimal Design Of The Observation Process: Stochastic Approach. Optimization Of Observation And Control Processes Valeri Ivanovic Karlov, Forming-Filter Construction For The Process With Partially Uncertain Statistics, Optimization Of Observation And Control Processes, AIAA Education Series, pp. Multiobjective Environmental Departure Procedure Optimization, Journal of Aircraft, Vol. See also AIAA Rights and Permissions /randp. The methodology treats the problem as a multiobjective optimal control problem that is solved Heuristic and Optimized Sensor Tasking Observation Strategies with