Analysis, Controllability and Optimization of Time-Discrete Systems and Dynamical Games

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Book Condition: New. Publisher/Verlag: Springer, Berlin | This book is concerned with the analysis, optimization and controllability of time-discrete dynamical systems and games under the aspect of stability, controllability and (for games) cooperative and non-cooperative treatment. The investigation of stability is based on Lyapunov's method which is generalized to non-autonomous systems. Optimization and controllability of dynamical systems is treated, among others, with the aid of mapping theorems such as implicit function theorem and inverse mapping theorem. Dynamical games are treated as cooperative and non-cooperative games and are used in order to deal with the problem of carbon dioxide reduction under economic aspects. The theoretical results are demonstrated by various applications. | Uncontrolled Systems.- Controlled Systems.- Controllability and Optimization.- A.1 The Core of a Cooperative n-Person Game.- A.2 The Core of a Linear Production Game.- A.3 Weak Pareto Optima: Necessary and Sufficient Conditions.- A.4 Duality.- B Bibliographical Remarks.- References.- About the Authors. | Format: Paperback | Language/Sprache: english | 325 gr | 192 pp.

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