

Many phenomena in mathematical economics, mathematical biology, physical mathematics and engineering may be modelled by a system of functional-differential equations where the past exerts its influence in a significant manner upon the future. They lead, in connection with some optimal control problems, to functional-differential inclusions. The present book is devoted to the investigation of the properties of functional-differential inclusions of the form $[\dot{x}](t) \in F(t, [x]_t, [\dot{x}]_t)$. Besides the existence theorems, the book is concerned with basic problems of optimal control theory, such as viability, controllability and existence of optimal trajectories for the systems described by the functional-differential inclusions of the above type. Its main topics are: - continuities and measurability concepts of set-valued maps; - measurable and continuous selection theorems; - some properties of Aumann integrable set-valued functions; - subtrajectory and trajectory integrals of sigma-selectionable set-valued functions; - relaxation and viability theorems; - existence theorems for neutral functional-differential inclusions; - compactness and upper semicontinuity of the set solutions; - controllability theorems; - some optimal problems for the systems described by neutral functional-differential inclusions.

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dient has been of universal use in the calculus of variations, in optimal control, and in differential inclusions to prove the existence of solutions. In fact, convexity . Abstract. We consider a Mayer problem of optimal control, whose dynamic constraint is given by a convex-valued differential inclusion. Both state and endpoint.

Dynamic optimization problems for differential inclusions on manifolds are considered. A mathematical framework for derivation of optimality conditions for. The note is concerned with necessary optimality conditions in optimal control problems involving differential inclusions. We sketch proofs of two theorems. This paper studies a general optimal control problem of Bolza for nonconvex differential inclusions with endpoint constraints in reflexive

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