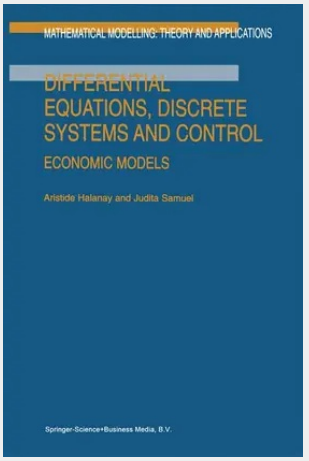
Halanay / Samuel

Differential Equations, Discrete Systems and Control

Economic Models

In t.lw fHll of)!)2, Professor Dr. M. Alt.ar, chairman of tlw newly established dppartnwnt or Managenwnt. wit.h Comput.er Science at thp Homanian -American Univprsity in Bucharest (a private univprsil.y), inl.roducod in t.he curriculum a course on DiffenHltial Equations and Optimal Cont.rol, asking IIS to teach such course. It was an inter8sting challengo, since for t.lw first tim8 wo had to t8ach such mathemaLical course for st.udents with economic background and interosts. It was a natural idea to sl.m't by looking at pconomic models which were described by differpntial equations and for which problems in (\pcision making dir! ariso. Since many or such models were r!escribed in discret.e timp, wp elecüled to elpvolop in parallel t.he theory of differential equations anel thal, of discrete-timo systpms aur! also control theory in continuous and discrete time. Tlw jll'eSPlü book is t.he result of our tpaehing px!wripnce wit.h this courge. It is an enlargüd version of t.he actllal lectuf(~s where, depending on t.he background of tho St.ll(\('llts, not all proofs could be given in detail. We would like to express our grat.itude to tlw Board of the Romanian - American University, personally 1.0 the Rector, Professor Dr. Ion Smedpscu, for support, encouragement and readinpss to accept advancnd ideas in tho curriculum. fhe authors express t.heir warmest thanks 1.0 Mrs. Monica Stan. Necula for tho oxcellent procC'ssing of t.he manuscript.

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