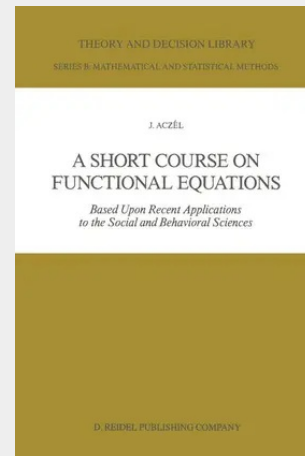


A Short Course on Functional Equations

Based Upon Recent Applications to the Social and Behavioral Sciences

Recently I taught short courses on functional equations at several universities (Barcelona, Bern, Graz, Hamburg, Milan, Waterloo). My aim was to introduce the most important equations and methods of solution through actual (not artificial) applications which were recent and with which I had something to do. Most of them happened to be related to the social or behavioral sciences. All were originally answers to questions posed by specialists in the respective applied fields. Here I give a somewhat extended version of these lectures, with more recent results and applications included. As previous knowledge just the basic facts of calculus and algebra are supposed. Parts where somewhat more (measure theory) is needed and sketches of lengthier calculations are set in fine print. I am grateful to Drs. J. Baker (Waterloo, Ont.), W. Forg-Rob (Innsbruck, Austria) and C. Wagner (Knoxville, Tenn.) for critical remarks and to Mrs. Brenda Law for careful computer-typing of the manuscript (in several versions). A note on numbering of statements and references: The numbering of Lemmata, Propositions, Theorems, Corollaries and (separately) formulae starts anew in each section. If quoted in another section, the section number is added, e.g. (2.10) or Theorem 1.2. References are quoted by the last names of the authors and the last two digits of the year, e.g. Daroczy-Losonczy [671. 1 1. An aggregation theorem for allocation problems. Cauchy equation for single- and multiplace functions. Two extension theorems.

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53,49 €
49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789027723772

Medium: Buch

ISBN: 978-90-277-2377-2

Verlag: Springer

Erscheinungstermin: 30.11.1986

Sprache(n): Englisch

Auflage: 2. Auflage 1986

Serie: Theory and Decision Library B

Produktform: Kartoniert

Gewicht: 270 g

Seiten: 180

Format (B x H): 152 x 229 mm

