NEW DIRECTIONS IN DIFFERENTIAL EQUATIONS AND DYNAMICAL SYSTEMS

A collection of papers dedicated to J K Hale on the occasion of his 60th birthday

Edited by J M Ball

This volume is dedicated to Jack Hale to mark his 60th birthday on 3 October 1988. It contains invited articles contributed by his friends and colleagues, and in particular by the invited speakers at the Symposium on *New Directions in Dynamical Systems* held in Jack Hale's honour in August 1988 at Brown University. The variety and interest of these articles reflects the enormous influence that Jack Hale has had on the study of differential equations and dynamical systems. All the articles were refereed and have appeared in recent issues of *Proceedings A*.

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Note that confusion very often arises between 1 (one) and l (ell): 0 (zero) and O (Capital oh): $\circ$ (composition) and o (lower case oh): x and $\times$: U and $\cup$: c and $\subset$: $\in$ (belongs to) and ϵ (epsilon): $\varnothing$ (empty set) and ϕ (phi): $_1$ and comma ,: prime ' and ^{1}: K and κ: p and ρ: w and ω: $\sum$ (summation) and Σ (capital sigma): $\prod$ (product) and Π (capital pi): υ (lower case vee) and ν (Greek *nu*): a (lower case a) and α (Greek alpha): y (lower case y) and γ (Greek gamma). Please provide pencilled indicators in the margin where necessary. Where capitals and lower case of the same shape have to be printed, please indicate accordingly. Show italics by single underlining (except in the formulae which are set up normally in italics), bold face/Clarendon by wavy underlining and Greek by red underlining.

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