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Alan Zinober, David Owens (Eds.)

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# Nonlinear and Adaptive Control

**NCN4 2001**

With 88 Figures



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# Preface

This volume contains thirty-one papers based on talks delivered at the 4th Workshop of the Nonlinear Control Network (<http://www.shef/~NCN4>), held at The University of Sheffield, 25–28 June, 2001.

We would like to emphasize one peculiarity of our field: nonlinear control is an example of a theory situated at a crossroad between mathematics and engineering science. Due to this position, nonlinear control has its roots in both fields and, as we deeply believe, can bring new ideas and new results for both domains. The book reflects very well this “double character” of nonlinear control theory: the reader will find in it results which cover a wide variety of problems: starting from pure mathematics, through its applications to nonlinear feedback design, and all the way to recent industrial advances.

The following delivered invited talks at the Workshop :

*Frank Allgower, Alessandro Astolfi, Riccardo Marino*

*Francoise Lamnabhi-Lagarrigue, Wei Lin and Malcolm Smith*

Altogether the book contains 31 papers and therefore it is impossible to mention here all the discussed topics.

We wish to thank all invited speakers and contributors to the 4th Nonlinear Control Network Workshop for making this conference an outstanding intellectual celebration of the area of Nonlinear Control. We would like to thank the TMR Program for the financial support which, in particular, helped numerous young researchers in attending the Workshop. Many thanks to our local administrative helpers; Nirvana Bloor, Marianna Keray, Lynda Harrison, Ali Jafari Koshkouei, Russ Mills and Alex Price. Also, greatly appreciated thanks are extended to Ali Jafari Koshkouei for his very patient and attentive final checking of the complete manuscript.

*Alan Zinober      David Owens*

*Sheffield, UK*

*November 2001*

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