

# Lecture Notes in Economics and Mathematical Systems

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## Advances in Equilibrium Theory

Proceedings of the Conference on General  
Equilibrium Theory  
Held at Indiana University-Purdue University  
at Indianapolis, USA  
February 10–12, 1984

Edited by C. D. Aliprantis, O. Burkinshaw and N. J. Rothman

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## PREFACE

In the course of the last fifty years, mathematical tools became a staple in the development of economic theory. Economists continue to invoke sophisticated and diverse mathematical ideas to understand and explain complex situations. This interdisciplinary process brings the fields of mathematics and economics closer together. By now it is apparent that in order to advance our understanding of the social sciences, there must be cooperation between mathematicians and social scientists. We believe that this volume will contribute toward cooperation of this nature.

On February 10-12, 1984, a conference on General Economic Equilibrium Theory took place on the campus of Indiana University - Purdue University at Indianapolis. This book is a collection of papers, some presented and others inspired by this conference. The authors had the difficult task of writing for two discrete audiences: Mathematicians unfamiliar with economic theory and Economists with moderate knowledge of advanced mathematics. The results presented in these papers facilitate the advancement of both mathematics and economics.

We take this opportunity to thank all the participants at the conference, with special thanks to the authors of the articles presented here. Also, we thank our institution Indiana University - Purdue University at Indianapolis and its office of sponsored research for a grant supporting this conference.

February 1985

C. D. ALIPRANTIS, O. BURKINSHAW AND N. J. ROTHMAN

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