

PREFACE

This volume grew out from the “International Conference on Reaction-Diffusion Systems and Viscosity Solutions” held at Providence University, Taiwan, during January 3–6, 2007. It consists mostly of selected articles representing the recent progress of some important areas of nonlinear partial differential equations. Some of the articles are research papers by participants of the conference, but most are invited survey papers by leading experts in the field, not necessarily participant of the conference. We hope that in the form of a collected volume, the themes of the conference are further developed, and more researchers can benefit from it. In particular, we hope that the book is useful for researchers and postgraduate students who want to learn about or follow some of the current research work in nonlinear partial differential equations.

The topics included here reflect the themes of the above-mentioned conference and the research interests of the editors, and therefore are naturally biased and incomplete. Nevertheless, they cover a wide range of partial differential equations, from regularity of viscosity solutions, to symmetry properties of positive solutions of parabolic equations, to nonlinear Schrodinger equations, to mention but a few. A complete list can be found from the content pages.

We thank Providence University for the financial support of the conference and of the publication of this volume; without doubt many researchers and postgraduate students will benefit from this generous support, for many years to come. We also thank the authors for their efforts to make this volume a valuable reference book. Finally we extend our thanks to the editors at World Scientific Publishing for their help and patience.

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