

## Preface



This special volume is dedicated to Professor Marshall Slemrod on the occasion of his 70<sup>th</sup> birthday. Professor Slemrod has been well known for his fundamental contributions to partial differential equations and applied mathematics. His work and warmth have inspired researchers of several generations with whom he has generously shared his knowledge, enthusiasm, and thoughts.

Professor Slemrod's active research has covered a wide range of areas of mathematics, including dynamical systems, elasticity, phase transitions, gas dynamics, fluid dynamics, kinetic theory, and more recently geometry. The papers of this special volume represent some of the topics he has been

actively working on, and provide state-of-the-art results in related areas. We believe that the papers appearing in this special volume will stimulate further research in the topics covered.

We, as friends, collaborators, colleagues, and editors of this special volume, also would like to offer our warmest congratulations to Marshall on this happy and enjoyable occasion.

We are grateful to all the contributing authors of this special volume, who have taken the opportunity to celebrate Marshall's 70<sup>th</sup> birthday and his contributions to the area of applied mathematics; and to all the reviewers who helped make this volume possible. Our gratitude also goes to the editors and staff of the journal "Communications in Information and Systems" for providing us the opportunity and assistance to publish this wonderful volume.

Happy Birthday to Marshall!

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