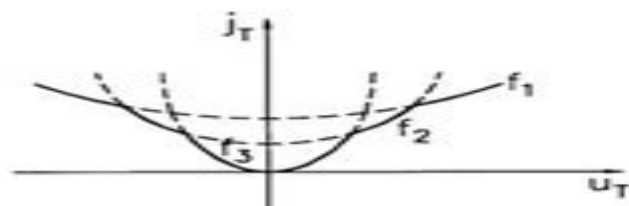


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Direct and Inverse Problems of Mathematical Physics R.P. Gilbert, Joji Kajiwar, Yongzhi S. Xu, 2013-04-17 This volume consists of papers presented in the special sessions on Wave Phenomena and Related Topics and Asymptotics and Homogenization of the ISAAC 97 Congress held at the University of Delaware during June 2 7 1997 The ISAAC Congress coincided with a U S Japan Seminar also held at the University of Delaware The latter was supported by the National Science Foundation through Grant INT 9603029 and the Japan Society for the Promotion of Science through Grant MTCS 134 It was natural that the participants of both meetings should interact and consequently several persons attending the Congress also presented papers in the Seminar The success of the ISAAC Congress and the U S Japan Seminar has led to the ISAAC 99 Congress being held in Fukuoka Japan during August 1999 Many of the same participants will return to this Seminar Indeed it appears that the spirit of the U S Japan Seminar will be continued every second year as part of the ISAAC Congresses We decided to include with the papers presented in the ISAAC Congress and the U S Japan Seminar several very good papers by colleagues from the former Soviet Union These participants in the ISAAC Congress attended at their own expense This volume has the title Direct and Inverse Problems of Mathematical Physics which consists of the papers on scattering theory coefficient identification uniqueness and existence theorems boundary controllability wave propagation in stratified media viscous flows nonlinear acoustics Sobolev spaces singularity theory pseudo differential operators and semigroup theory

Differential Equations and Nonlinear Mechanics Kuppapalalle Vajravelu, 2013-12-01 The International Conference on Differential Equations and Nonlinear Mechanics was hosted by the University of Central Florida in Orlando from March 17 19 1999 One of the conference days was dedicated to Professor V Lakshmikantham in th honor of his 75 birthday 50 well established professionals in differential equations nonlinear analysis numerical analysis and nonlinear mechanics attended the conference from 13 countries Twelve of the attendees delivered hour long invited talks and remaining thirty eight presented invited forty five minute talks In each of these talks the focus was on the recent developments in differential

equations and nonlinear mechanics and their applications This book consists of 29 papers based on the invited lectures and I believe that it provides a good selection of advanced topics of current interest in differential equations and nonlinear mechanics I am indebted to the Department of Mathematics College of Arts and Sciences Department of Mechanical Materials and Aerospace Engineering and the Office of International Studies of the University of Central Florida for the financial support of the conference Also to the Mathematics Department of the University of Central Florida for providing secretarial and administrative assistance I would like to thank the members of the local organizing committee Jeanne Blank Jackie Callahan John Cannon Holly Carley Brad Pyle Pete Rautenstrauch and June Wingler for their assistance Thanks are also due to the conference organizing committee F H Busse J R Cannon V Girault R H J Grimshaw P N Kaloni V

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