

PREFACE

This Book Volume includes selected full papers for the Proceedings of the Ninth Asia-Pacific Conference on Engineering Plasticity and Its Applications, AEPA2008, which was held in Daejeon, Korea on the 20th to 24th of October, 2008. The Asia-Pacific Conference on Engineering Plasticity and Its Applications has been very successful with its exotic and extensive research topics as an open forum to exchange ideas and introduce the latest research findings in the broad disciplines of plasticity including solid mechanics, material science, metal forming, structural analysis as well as physics and chemistry.

During the Ninth Asia-Pacific Conference on Engineering Plasticity and Its Applications, AEPA2008, following the previous successful conferences in Hong Kong (1992), Beijing (1994), Hiroshima (1996), Seoul (1998), Hong Kong (2000), Sydney (2002), and Shanghai (2004), Nagoya (2006), 149 full papers were presented in oral and poster sessions. The papers have been selected from submission of over 200 abstracts and then from 186 full papers for a broad range of engineering plasticity such as Constitutive modeling, Damage, fracture, fatigue and failure, Dynamic loading and crash dynamics, Experimental and numerical techniques, Molecular dynamics, Nano, meso, micro and crystal plasticity, Phase transformations, Plasticity in advanced materials, Plasticity in materials processing technology. Among the papers presented, 138 full papers have been selected as a special issue of the International Journal of Modern Physics B after peer review by two experts in the international scientific committee and the organizing committee for each paper.

The organizing committee wishes to express their hearty appreciation to authors, reviewers and participants as well as plenary lecturers and keynote lecturers for their continual support and contribution for the success of the AEPA2008. Sincere thanks should also go to all members of the international steering committee, the international scientific committee and the organizing committee for their devoted effort to make the AEPA2008 a great success. Many thanks should go to all supporters of Daejeon Convention Center, Sejong Convention Services and students at KAIST for their elaborated devotion. On behalf of the organizing committee, I would like to thank all the generous sponsors for their financial support which enabled the organizing committee to prepare and organize the conference and the publication of the proceedings and the special issue. Special thanks are due to the editors at World Scientific Publishing Co. Pte. Ltd. for their kind support to this special issue and proceedings volume. Thanks to all of them, the AEPA could make

significant contribution to the progress and innovation of engineering plasticity and related fields.

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