Preface

The present book includes a set of selected papers from the 2011 International Conference on Advanced Design and Manufacturing Engineering (ADME 2011), held in Guangzhou, China, from 16 to 18 September 2011, sponsored by Guangdong University of Technology, Huazhong University of Science and Technology, Hong Kong University of Science and Technology, Hong Kong Polytechnic University and University of Nottingham. The conference was organized in four simultaneous tracks: “Advanced Design Technology”, “Advanced Materials and Processes”, “Advanced Manufacturing Technology” and “Equipment Manufacturing Technology and Automation”.

All papers included in this book are under the scrutiny of peer and expert reviews before accepted for publication, and in accordance with high academic standard and quality. This book covers the subject areas of surface engineering/coatings, modeling, analysis and simulation of manufacturing processes, materials processing technology, mechanical behavior & fracture, material design of computer aided, tooling testing and evaluation of materials, thermal engineering theory and applications, CAM/CAE, high-speed/precision machining and inspection technology, micro-machining technology, laser processing technology, bionic mechanisms and bio-manufacturing, digital manufacture and management, the internet of things other related topics.

On behalf of the conference organizing committee, we would like to thank all participants. First of all to the authors, whose quality work is the essence of the conference and to the members of the committee for their expertise and time. We also wish to thank all referees for their constructive comments.

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The 2011 International Conference on 
Advanced Design and Manufacturing Engineering 
(ADME 2011)

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