

Preface

The present volume selected papers from the Proceeding of The First International Conference on Precision Engineering and Micro/Nano Technology in Asia (ASPEN for short). The conference is organized and co-organized by Harbin Institute of Technology, China Mechanical Engineering Society, Japan Society for Precision Engineering, Korean Society for Precision Engineering and National Science Foundation of China.

Precision engineering and micro/nano technology have been developed rapidly in recent years, and will become the dominant technology for the new industrial revolution in the 21st century. It not only causes a revolution in human cognition, but also will provide the new chance for the fast development of global economy.

There was a very good academic and technological exchange among various countries in Asia, especially in the field of precision engineering. In order to adapt the new technology developing situation and to meet the new challenge by combining the technological advantage and potential capacity of all the countries in Asia, Chinese Mechanical engineering Society, the Japan Society for Precision Engineering and Korean Society for Precision Engineering proposed the conference “International conference on Precision Engineering and Micro/Nano Technology in Asia”, which has been held on November 12-14, 2005 in Shenzhen, China. The aim of this conference is to promote the exchange of information and co-operation among experts from Asia and other countries in the fields of precision engineering, micro and nano technology.

The papers in this collection are selected from about 200 papers that submitted to the conference. These papers cover precision manufacturing theory and technique, ultra-precision measurements and control systems, ultra-precision machining systems and micro/nano technology. It is valuable to production and research engineers, research students and academics in the field.

As Chairman of ASPEN 2005, I would like to take this opportunity to express my appreciation of the generous contribution by all authors as well as the kind support from the conference organizers, supporters and co-sponsors. Thanks are also given to Prof. Sheng Dong, Prof. Yingxue Yao, Dr. Liang Zhou, Mr. Zongchen Sun, Mr. Yang Shen, Mr. Qi Yao and Mr. Hongbo Wang at Harbin Institute of Technology for their editing work, and to Trans Tech Publications for producing the volume.

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