

## Preface

On the occasion that the Officers' Meeting and the Board Meeting of ICIAM (International Council for Industrial and Applied Mathematics) was held in Shanghai from May 26 to May 27, 2006, many famous industrial and applied mathematicians gathered in Shanghai from different countries. The Shanghai Forum on Industrial and Applied Mathematics was organized from May 25 to May 26, 2006 at Shanghai Science Hall for the purpose of inviting some of them to present their recent results and discuss recent trends in industrial and applied mathematics. Sixteen invited lectures have been given for this activity. This volume collects the material covered by most of these lectures. It will be very useful for graduate students and researchers in industrial and applied mathematics.

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