Preface

The book “The Latest Methods of Construction Design” has been created on the basis of contributions of the 55th International Conference of Machine Design Departments. This book is a follow-up to an earlier very successful book “Modern Methods of Construction Design.”

This conference is one of the oldest central conferences, dealing with methods and applications in the machine design. The main aim of the conference is to provide an international forum where experts, researchers, engineers, and also industrial practitioners, managers, and PhD students can meet, share their experiences, and present the results of their efforts in the broad field of machine design and related fields.

In the year 2014, the Department of Designing and Machine Components, Faculty of Mechanical Engineering, Czech Technical University in Prague, whose members deal above all with machine design, experimental methods and measuring, engineering analyses, and products innovation, organized the 55th International Conference of Machine Design Departments on the occasion of 150th anniversary of Faculty of Mechanical Engineering (CTU in Prague). The mountain town of Beroun in Central Bohemia was chosen for this celebratory event.

Since 1960, when the first conference was organized in Melnik by Brno University of Technology, more than 50 years have passed. The main aim of the conference was to providing an opportunity for professional experiences sharing in the field of machine design, gears, and transmission mechanisms. The heads of Mechanical Design Departments decided to organize these conferences annually first at the national and later at the international level. The significance of the conference has grown. Historically, the conferences were organized in different places by different mechanical design departments of Czech and Slovak technical universities:
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We firmly believe the tradition of ICMD will continue in the coming years.

Members of conference organizing committee

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