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Preface

This volume contains a selection of papers presented at the Fifth International Workshop on Computer Aided Systems Theory (CAST), which was held in Innsbruck (Tyrol/Austria) in May 1995.

Over the last years CAST research has become rather stable in the sense that the common paradigms to be followed are today generally accepted by the interested groups such as theoreticians, tool-makers, designers, or appliers. This we believe is reflected in this volume.

In section 1 (Systems Theory), new approaches for the development of systems theory, as required to provide theoretical frameworks for complex modelling tasks, are presented. Section 2 (Design Environments) gives an insight into different developments of method base systems and their architectures, which are crucial for the success of CAST in practical applications. Section 3 (Complex System Design) deals with methodological means to control complexity in engineering design tasks. Finally, section 4 (Specific Applications) presents some concrete examples of applied research, which can be embedded into the topics of CAST research.

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