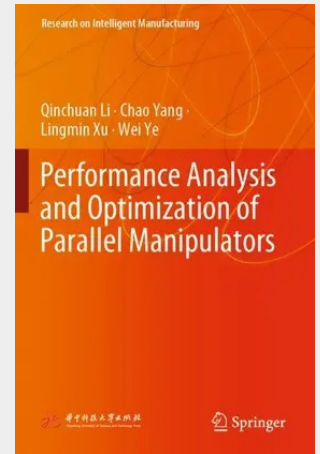


Performance Analysis and Optimization of Parallel Manipulators

This book investigates the performance analysis and optimization design of parallel manipulators in detail. It discusses performance evaluation indices for workspace, kinematic, stiffness, and dynamic performance, single- and multi-objective optimization design methods, and ways to improve optimization design efficiency of parallel manipulators. This book collects the authors' research results previously scattered in many journals and conference proceedings and presents them in a unified form after the methodical edition. As a result, numerous performance analyses and optimization of parallel manipulators are presented, in which the readers in the robotics community may be greatly interested. More importantly, readers can use the methods and tools introduced in this book to carry out performance evaluation and optimization of parallel manipulators by themselves. The book can provide important reference and guideline for undergraduate and graduate students, engineers, and researchers who are interested in design and application of parallel manipulators.

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