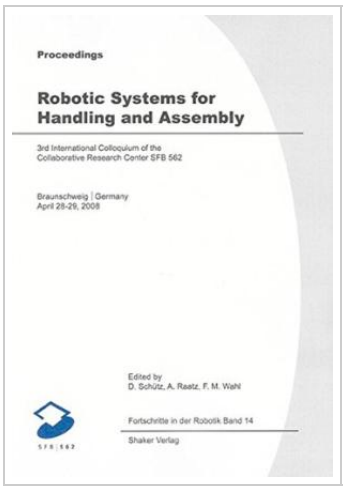

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Proceedings of the 3rd International Colloquium of the Collaborative Research Centre 562 "Robotic Systems for Handling and Assembly"

By D Schütz

Shaker Verlag Apr 2008, 2008. Taschenbuch. Condition: Neu. Neuware - Economic as well as technological reasons require industrial robot systems with improved performance characteristics - particularly with respect to dynamics and accuracy. Parallel robots based on closed kinematic chains have been widely noticed to meet these increasing demands in production technology. However, for a long time parallel robots mainly attracted researchers while industrial acceptance was low and very few parallel robots were offered. This situation has considerably changed during the last two years. More and more parallel robotic systems appear on the market and prove to be a viable alternative to conventional serial robots. One reason for the increased interest in parallel robots is that many exciting technologies and algorithms have emerged over the last decade which improve performance as well as robustness and interactivity of parallel robotic systems for real-world applications - hence enhancing user acceptance. Therefore, progress goes back to fundamental research work on parallel robots. This field is the domain of the Collaborative Research Center SFB 562 'Robotic Systems for Handling and Assembly', a research group established by the German Research Foundation (DFG) in 2000. Within an interdisciplinary framework, mechanical and electrical engineers as well as computer...

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