1. Record Nr. UNINA9910392724203321 Advances in Robot Kinematics 2016 / / edited by Jadran Lenari, Jean-Titolo Pierre Merlet Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2018 **ISBN** 3-319-56802-7 Edizione [1st ed. 2018.] Descrizione fisica 1 online resource (XII, 453 p. 201 illus., 131 illus. in color.) Collana Springer Proceedings in Advanced Robotics, , 2511-1256; ; 4 Disciplina 629.8933 Soggetti Control engineering Robotics Mechatronics Computer mathematics Engineering design Control, Robotics, Mechatronics Computational Science and Engineering **Engineering Design** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references at the end of each chapters and

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Mass Equivalent Pantographs for Synthesis of Balanced Focal Nota di contenuto

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Sommario/riassunto

This book brings together 46 peer-reviewed papers that are of interest to researchers wanting to know more about the latest topics and methods in the fields of the kinematics, control and design of robotic systems. These papers cover the full range of robotic systems, including serial, parallel and cable-driven manipulators, both planar and spatial. The systems range from being less than fully mobile, to kinematically redundant, to over-constrained. In addition to these more familiar areas, the book also highlights recent advances in some emerging areas: such as the design and control of humanoids and humanoid subsystems; the analysis, modeling and simulation of human-body motions; mobility analyses of protein molecules; and the development of machines that incorporate man.