



Interdisciplinary Applications of Kinematics: Proceedings of the International Conference, Lima, Per , January 9-11, 2008

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Kinematics is an exciting area of computational mechanics which plays a central role in a great variety of fields and industrial applications. Apart from research in pure kinematics, the field offers challenging problems of practical relevance that need to be solved in an interdisciplinary manner in order for new technologies to develop. The present book collects a number of important contributions presented during the First Conference on Interdisciplinary Applications of Kinematics (IAK 2008) held in Lima, Peru. To share inspiration and non-standard solutions among the different applications, the conference brought together scientists from several research fields related to kinematics, such as for example, computational kinematics, multibody systems, industrial machines, robotics, biomechanics, mechatronics and chemistry. The conference focused on all aspects of kinematics, namely modeling, optimization, experimental validation, industrial applications, theoretical kinematical methods, and design. The results should be of interest for practicing and research engineers as well as Ph.D. students from the fields of mechanical and electrical engineering, computer science, and computer graphics.

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