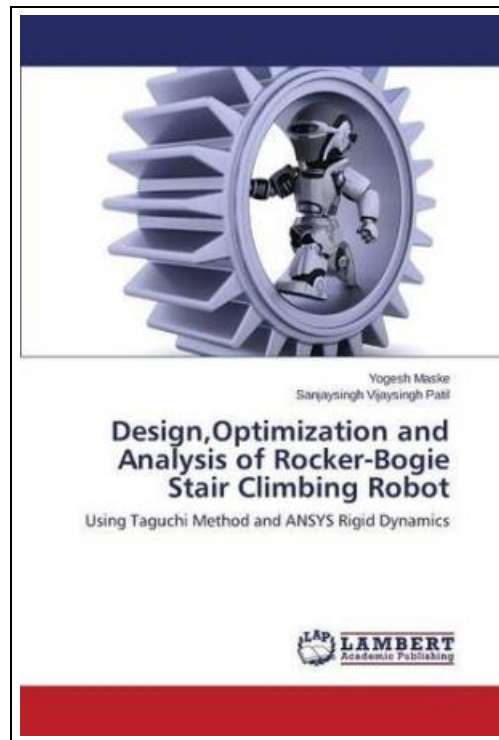


Design,Optimization and Analysis of Rocker-Bogie Stair Climbing Robot



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Using Taguchi Method and ANSYS Rigid Dynamics | In recent years, many robotic platforms have been designed for structure and uneven terrains to carry out military, defense and Intelligence operations. But it is difficult to operate them in structured terrain especially when dimension of stairs are changing from place to place as per building and construction norms. If we work on this limitation of robotic platform to climb against variable dimensions of stairs, then it is possible to build a locomotive strategy which can overcome all sizes of stairs. This book deals with the designing and manufacturing of stair climbing robot based on the well-known rocker bogie mechanism. It is important to note that trajectory of center of mass serve as a tool for effectively predicting such undesirable phenomenon which is likely to occur at the moment the trajectory of center of mass drastically or discontinuously changes. Therefore it is highly required to make trajectory of center of mass as smooth as possible which implies trajectory of center of mass must be close to a straight line whose slope is determined by slope of stair or step. | Format: Paperback | Language/Sprache: english | 148 pp.



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