

Mechanism in the Theory of Machines

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Abstract: *Mechanisms are fundamental components of machine theory, providing the necessary means for transmitting and transforming motion and force in mechanical systems. This paper explores the principles of mechanisms within the framework of the theory of machines, analyzing different types of mechanisms, their classifications, and their roles in complex systems. A focus is given to linkages, cams, gears, and other commonly used mechanisms. Additionally, the paper examines the kinematic and dynamic analysis of mechanisms, their applications, and the evolving role of digital tools in their design and optimization.*

Keywords: motion, analysing, digital tools