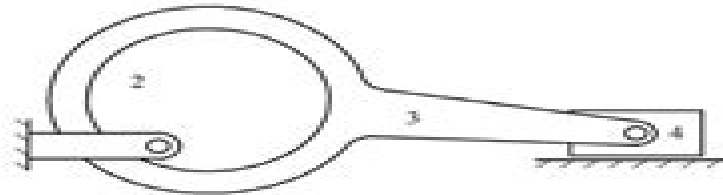

Problem 1.16

Determine the mobility and the number of idle degrees of freedom associated with the mechanism. Show the equations used and identify any assumptions made when determining your answers.



Solution:

$$n = 4$$

$$j = 4$$

$$M = 3(n - j - 1) + \sum f_i = 3(4 - 4 - 1) + 4 = -3 + 4 = 1$$

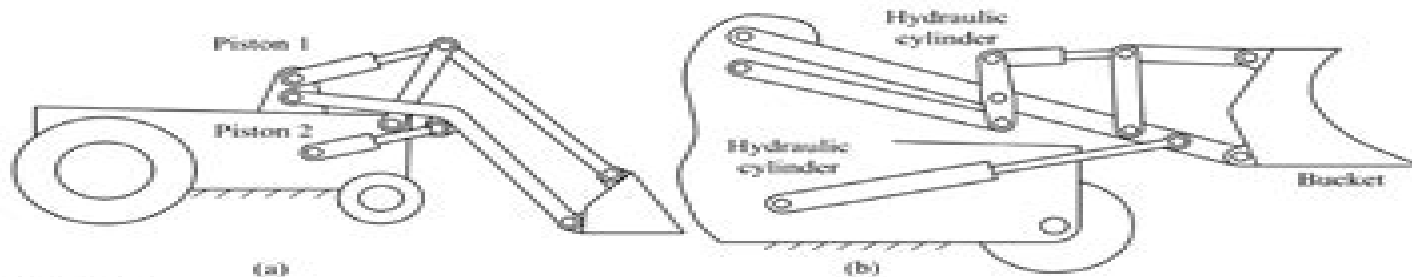
Mobility = 1.

Idle DOF = 0

Assume that link 2 has a circular motion around link 3.

Problem 1.17

Determine the mobility of each of the planar linkages shown below. Show the equations used to determine your answers.



Solution:

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Christian G. Meyer



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Mechanism Design Kevin Russell,Qiong "John" Shen,Raj S. Sodhi,2025-11-04 This updated edition of Mechanism Design Visual and Programmable Approaches using MATLAB and Simscape MultibodyTM offers a comprehensive introduction to kinematic synthesis covering motion path and function generation techniques for a wide range of planar and spatial single and multi loop linkage systems This book presents foundational concepts alongside practical methodologies

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Selected Material from Design of Machinery Robert L. Norton, 2001 Advances in Mechanism and Machine Science Masafumi Okada, 2023-11-04 This book gathers the proceedings of the 16th IFToMM World Congress which was held in Tokyo Japan on November 5-10 2023 Having been organized every four years since 1965 the Congress represents the world's largest scientific event on mechanism and machine science MMS The contributions cover an extremely diverse range of topics including biomechanical engineering computational kinematics design methodologies dynamics of machinery multibody dynamics gearing and transmissions history of MMS linkage and mechanical controls robotics and mechatronics micro mechanisms reliability of machines and mechanisms rotor dynamics standardization of terminology sustainable energy systems transportation machinery tribology and vibration Selected by means of a rigorous international peer review process they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations

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