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STUDY ON ROBOT ANATOMY AND ITS APPLICATIONS

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Abstract

Automation and robotics are two closely related technologies. Automation as a technology that is concerned with the use of mechanical, electronic and computer-based system in the operation and control of production. Examples of automation include transfer lines, mechanized assembly machines; feedback control systems numerically control machine tools and robots. This paper deals with the three broad classes of industrial automation fixed, programmable and flexible. Of the three types of automation robotics coincides closely with programmable automation. An industrial robot is a general–purpose, programmable machine that possesses certain anthropomorphic or human like characteristic the robot can be programmed to move its arm through a sequence of motions in order to perform some useful task. The programming feature allows robots to be used for a variety of industrial operation, which involve robot working together with other pieces of automated, or semi automated equipment.This paper also discuss about the robotic sensors, control system and applications .

Keywords : Automation, robotics, drive systems, sensors, control systems and dynamic performance.