

Fig. 2.6 A SCARA Robot designed for assembly.

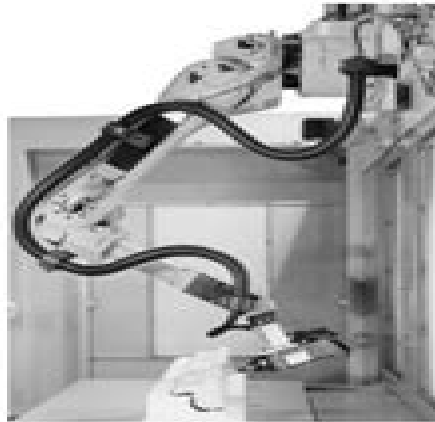


Fig. 2.7 Articulated robots used in machining, spray painting, welding etc.

2.1.3 Joint Notation Scheme

The physical configuration of the robot manipulator can be described by means of a joint notation scheme, using the joint types defined earlier in this section (L , R , T , and P). Considering the arm and body joints first, the letters can be used to designate the particular robot configuration starting with the joint closest to the base and proceeding to the joint that connects to the wrist. Accordingly, a jointed-arm robot (excluding the wrist assembly) would have three rotational joints and would be

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Mikell P. Groover



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Utilization of AI Technology in Supply Chain Management Pandey, Digvijay, Pandey, Binay Kumar, Kanike, Uday Kumar, George, A. Shaji, Kaur, Prabjot, 2024-03-01 The surge in digital transformation and the integration of innovative technologies into manufacturing processes have given rise to a pressing issue in supply chain management. Businesses are in dire need of solutions to navigate this complexity and harness the true potential of intelligent supply chains. Utilization of AI Technology in Supply Chain Management is a comprehensive guide tailored for academic scholars seeking to unravel the mysteries of artificial intelligence AI and machine learning ML in the context of supply chain management. Amid the hype surrounding AI and ML, there exists a critical need to bridge the gap between human expertise and technological advancements. Utilization of AI Technology in Supply Chain Management addresses this necessity by delving into real-world instances where teams have successfully employed these innovative technologies to enhance supply chain performance, reduce inventory, and optimize routes. The adoption of AI and ML is not just a trend; it is the cornerstone of digital acceleration initiatives, making it imperative for scholars to understand and leverage these technologies effectively.

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