



Controller Design for Industrial Robots and Machine Tools: Applications to Manufacturing Processes (Woodhead Publishing in Mechanical Engineering)

F Nagata, K Watanabe

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Advanced manufacturing systems are vital to the manufacturing industry. It is well known that if a target work piece has a curved surface, then automation of the polishing process is difficult. Controller design for industrial robots and machine tools presents results where industrial robots have been successfully applied to such surfaces, presenting up to date information on these advanced manufacturing systems, including key technologies. Chapters cover topics such as velocity-based discrete-time control system for industrial robots; preliminary simulation of intelligent force control; CAM system for an articulated industrial robot; a robot sander for artistic furniture; a machining system for wooden paint rollers; a polishing robot for PET bottle blow moulds; and a desktop orthogonal-type robot for finishing process of LED lens cavity; and concludes with a summary. The book is aimed at professionals with experience in industrial manufacturing, and engineering students at undergraduate and postgraduate level.

- Presents results where industrial robots have been used successfully to polish difficult surfaces
- Presents the latest technology in the field
- Includes key technology such as customized several position and force controllers

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