

Flexible robot manipulators: modelling, simulation and control

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Abstrak

The ever increasing utilisation of robotic manipulators for various applications in recent years has been motivated by the requirements and demands of industrial automation. Among these, attention is focused more towards flexible manipulators, due to various advantages they offer compared to their rigid counterparts. Flexural dynamics have constituted the main research challenge in modelling and control of such systems; research activities have accordingly concentrated on the development of methodologies to cope with this.