

*Introduction to*  
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**MECHANICS AND  
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Fourth Edition



 Pearson

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# Introduction To Robotics By John J Craig

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Indian and International Scientists at the 20th All India Manufacturing Technology Design and Research Conference  
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harmonic or direct drives or flexible couplings limits the performance of robots Performance can be improved by taking into  
account the fast dynamics that are introduced by joint flexibility High gain acceleration feedback from the link angles  
simplifies the robot dynamics but is limited by joint flexibility One solution is to use joint torque feedback to stabilize the fast  
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presents a dynamic model of a flexible joint robot in several coordinate systems and includes an analysis of the fast dynamics

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**Robotica** ,1993     **Bulletin of Pure & Applied Sciences** ,2003

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