Lecture Notes

Multibody Dynamics (mbd)

with Applications on MBS-Programs

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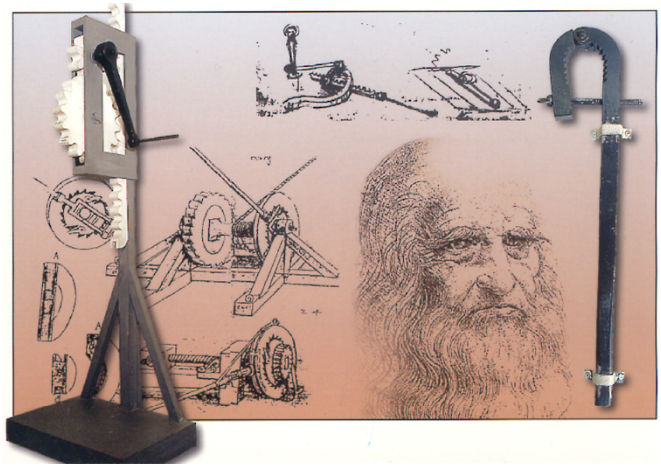
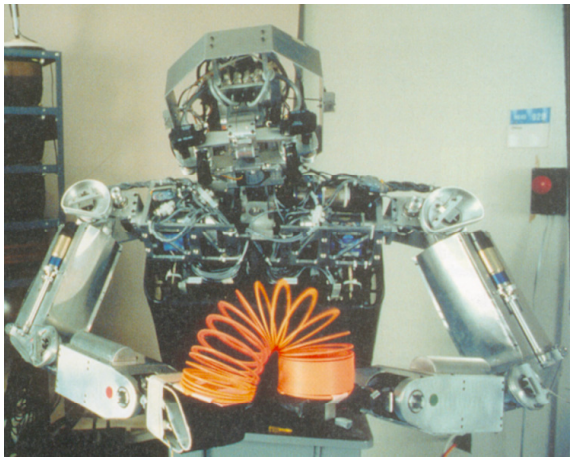
Preliminary Remarks

Multibody Dynamics is one of the most prominent subject of mechanical and mechatronics engineering. It is also the logical sequel to the course in Mechanical Engineering in that it will now be dealt with multiple bodies in planar and spatial motion. In past and future engineers are involved in the development of sophisticated machines. The knowledge of their kinematics and dynamics is always present.





Notice

These lecture notes may serve as a supplement and a reference, but they do not replace the attendance of the lectures and the exercises.

Suggestions for improvements and corrections on part of the readers are always welcome by the author.

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Part II - Flexible Body Dynamics

in preparation