

# ME 231

## Kinematics of Machinery

**Text:** Robert L. Norton *Design of Machinery* McGraw-Hill, 4th ed.,  
ISBN 978-0-07312158-4

Topics	Reading	
Introduction Degree of Freedom Grashof's Rule	Ch.1 pp.3-23, 26-29, Ch.2 pp.30-95	2-15,18,20,22,32,39
Displacement Analysis	Ch.4 pp.174-221	4-2,7,10,12
Linkage Synthesis	Ch.5 pp.222-278	5-8,12,16,21,27
Velocity Analysis	Ch.6 pp.279-341	6-5,7,8,16c,18c
Acceleration Analysis	Ch.7 pp.342-390	7-4,6,7,8,15b
Cam Design	Ch.8 pp.391-461	8-7,8,10,12,13,18
Spur Gears	Ch.9 pp.462-493	9-1,3,4,5
Gear Trains	Ch.9 pp.493-531	9-6,10,14,26,36,40,57

F08/IF