

# ME 231

## Kinematics of Machinery

**Text:**

Robert L. Norton *Design of Machinery* McGraw-Hill, 6th ed., ISBN 978-1-260-22442-0  
 The 5<sup>th</sup> edition of this text book can also be used.

Topics	Reading 5 <sup>th</sup> ed	Reading 6 <sup>th</sup> ed	Problems 5 <sup>th</sup> ed and 6 <sup>th</sup> ed
Introduction Degree of Freedom Grashof's Rule	Ch.1 pp.3-29, Ch.2 pp.30-95	Ch.1 pp.3-29, Ch.2 pp.30-97	2-15,18,22,32,39
Displacement Analysis	Ch.4 pp.174-227	Ch.4 pp.178-232	4-2,7,10,12
Linkage Synthesis	Ch.5 pp.228-284	Ch.5 pp.233-290	5-8,12,16,21,27
Velocity Analysis	Ch.6 pp.285-349	Ch.6 pp.291-356	6-5,7,8,16c,18c
Acceleration Analysis	Ch.7 pp.350-400	Ch.7 pp.357-408	7-4,6,7,8,15b
Cam Design	Ch.8 pp.401-481	Ch.8 pp.409-489	8-7,8,10,12,13,18
Spur Gears	Ch.9 pp.482-503	Ch.9 pp.490-511	9-1,3,4,5
Gear Trains	Ch.9 pp.503-541	Ch.9 pp.511-550	9-6,10,14,26,36,40,57

Problems have the same wording both editions, but there may be different values of the problem parameters.

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