

SUGGESTED PROBLEMS – MECHANICS OF MATERIALS

All problem numbers are according to *Beer, Ferdinand P., R. Johnston, J. Dewolf, and D. Mazurek. "Mechanics of Materials, McGraw-Hill, Sixth Edition"*

Suggested Problems for Chapter 1

Sample problems: 1.2, 1.3, 1.4

Problems: 1.1, 1.2, 1.18, 1.31, 1.32, 1.47, 1.48, 1.55, 1.56, 1.59

Suggested Problems for Chapter 2

Examples: 2.01, 2.02, 2.03, 2.04, 2.05, 2.06, 2.07, 2.11, 2.12

Sample Problems: 2.1, 2.2, 2.3, 2.4

Problems: 2.1, 2.4, 2.7, 2.13, 2.19, 2.20, 2.23, 2.28, 2.34, 2.41, 2.42, 2.51, 2.53, 2.60, 2.62, 2.68, 2.95, 2.125, 2.132

Suggested Problems for Chapter 3

Examples: 3.01, 3.02, 3.03, 3.07

Sample Problems: 3.1, 3.3

Problems: 3.1, 3.2, 3.5, 3.9, 3.10, 3.11, 3.12, 3.17, 3.18, 3.21, 3.31, 3.32, 3.36, 3.38, 3.48, 3.87, 3.88

Suggested Problems for Chapter 4

Sample Problems: 4.2, 4.3, 4.8

Problems: 4.2, 4.5, 4.9, 4.10, 4.11, 4.15, 4.19, 4.33, 4.34, 4.39, 4.40, 4.47, 4.48, 4.53, 4.56, 4.101, 4.102, 4.105

Suggested Problems for Chapter 5

Examples: 5.01, 5.02

Sample Problems: 5.1

Problems: 5.1 to 5.6, 5.9, 5.15, 5.24

Suggested Problems for Chapter 6

Examples: 6.01

Sample Problems: 6.1

Problems: 6.9 - 6.14, 6.16, 6.17, 6.18 and 6.37

Suggested Problems for Chapter 7

Examples: 7.01, 7.02

Sample Problems: 7.2

Problems: 7.2, 7.4, 7.9, 7.16, 7.17, 7.25, any problem of 7.31 to 7.52, and 7.112, 7.113, 7.114

Suggested Problems for Chapter 8

Examples: 8.01

Suggested Problems for Chapter 9

Examples: 9.01, 9.02, 9.03

Sample Problems: 9.1 and 9.2

Problems: 9.1 - 9.4

Suggested Problems for Chapter 10

Examples: 10.01

Sample Problems: 10.1

Problems: 10.12, 10.13, 10.14, 10.118, 10.122, 10.123

