Errata

Chapter 4

* Page 108, second equation. F=partial U/partial d, not partial V/partial d.
* Fig. 4.4, p. 110: Upper-right hand corner, the equation should be |F_mechanical|=-k_mx
* Problems 4.5, p. 146: "If the support beams in Problem 4.6 become 0.25 mm long ..." should be "If the support beams in Problem 4.4 becomes 0.25 mm long"
* Problem 4.6, p. 147: "According to the conditions given in Problem 4.6, ..." should be "According to the conditions given in Problem 4.4..."
* Page 130, 3rd line from last. (fig. 4.6a) should be (fig4.14a).

Chapter 6

* Page 210, equation 6.8. There should be a factor of 1/2 in front of the right hand term.
* Page 223, Fig. 6.10, the table within the figure should be

a/b	1	1.2	1.4	1.6	1.8	2.0	∞
β_1	0.3078	0.3834	0.4356	0.4680	0.4872	0.4974	0.5000
β_2	0.1386	0.1794	0.2094	0.2286	0.2406	0.2472	0.2500
α	0.0138	0.0188	0.0226	0.0251	0.0267	0.0277	0.0284

Source: Warren C Young, Roark's formulas for stress and strain, 6th edition, p. 464, table 26, McGraw-Hill International Editions.

* Page 233, first line. ", the shear stress" should be ", the shear strain".
* Page 240, Problem 6.1. Add this line at the end of question: "The gauge factor is generalized as a term G".

Chapter 7

* Page 252, first line. "The longitudinal stress" should be "The longitudinal strain".
* Page 257, last line. Change "T_piezo" to "t_piezo"
* Page 258, second equation. S1 should be s1.

Chapter 10

* Page 333, Figure 10.6, change 54.75^o to 54.7^o.
* Page 334, Example 10.1, line 8, Change "2t/tan(54.47^o)" to "2t/tan(54.7^o)".
* Page 336, Fig. 10.8, change 54.75^o to 54.7^o.

Did I make a mistake? Please email me IMMEDIATELY to changliu@uiuc.edu and let me know. Thank you.