

**Assignment #7****Required Problems (Due April 29th by 3 pm)**

1. Write out the Z matrix for formaldehyde. Use 121.7 pm for the C-O bond, 110.0 pm for the C-H bonds, and a bond angle (H-C-H) of  $114.5^\circ$ .
2. From McQuarrie & Simon: 8-15 (Hint: See Example 8-3 in text), 8-16, 8-17, 8-18, 8-29 (Hint: See Example 8-7), 8-30, 8-33, 8-34, 8-39, 8-40.