

Columbia University in the City of New York  
New York, N.Y.10027

Department of Chemistry

212-854-4162

3109 Havemeyer Hall

Chemistry C2407x, 2003

George Flynn

## Homework Assignment 4

### Chemical Bonding

[Page references are to Oxtoby, 5<sup>th</sup> Edition. Page/section/problem numbers in square brackets refer to the 4<sup>th</sup> Edition of Oxtoby.]

Lectures cover Oxtoby pages 565-593 (Sections 16.1-16.3); pages 611-613 (Section 17.3); pages 759-763 (Section 21.3). [581-595 (Section 16.1, 16.2); 632-638 (Section 17.1); 614-616 (Section 16.8); 708-710 (Section 19.3)]. The last topic on bonding will cover solids as discussed by Gray in the little paper back book, "Chemical Bonds: An Introduction to Atomic and Molecular Structure", Harry B. Gray, Benjamin/Cummings, 1973, pages 210-218.

The book is out of print but is on reserve in the Chemistry Library.

Do Oxtoby Chapters 16, 17 and 20 Problems: 16.1, 16.3, 16.5, 16.7, 16.13, 16.15, 16.17, 16.19; 16.27, 16.29, 20.13, and 17.21; [16.1, 16.3, 16.5, 16.7, 16.13, 16.15, 16.17, 16.19; 17.1, 17.3, 17.15, and 17.37]

Suggested Completion date: 12/8/03