

KJEM 306, NMR Spectroscopy II, Spring 2014

Main text and curriculum:

James Keeler: “*Understanding NMR Spectroscopy*”, Second Edition, Wiley, 2010.

Chapter 2: Revisiting of basic principles. 16 pages.

Chapter 3: Revisiting of basic principles. 18 pages.

Chapter 4: Revisiting of basic principles. 25 pages.

Chapter 5: 5.1–5.3 useful for later chapters. 14 pages. (5.4–5.6 optional reading.)

Chapter 7: 40 pages.

Chapter 8 (not 8.5, 8.12): 40 pages.

Chapter 9: A selection of a few important topics.

Chapter 11 (not 11.15–11.16): 45 pages.

Chapter 12: A selection of a few important topics.

Chapter 13: Revisiting of basic principles. 11 pages.

Total: 139 pages not including chapters 2, 3, 4, and 13 (70 pages).

Supportive/alternative text:

P. J. Hore, J. A. Jones and S. Wimperis: “*Oxford Chemistry Primers Series. No. 92 NMR: The Toolkit*”, Oxford Science Publications, 2000.

Part A of this book is highly recommended. A few select sections from part B may also be useful, especially those from chapter 7.

Alternative text (previous main text and curriculum):

T. C. Pochapsky and S. S. Popchapsky: “*NMR for Physical and Biological Scientists*”, Garland Science, 2007.

Chapter 1: For revisiting basic principles. 20 pages.

Chapter 2: For revisiting basic principles. 24 pages.

Chapter 3: Some sections needed for later chapters. 40 pages.

Chapter 5: 22 pages.

Chapter 6: 17 pages.

Chapter 7: pp 167–186, 190–197. 28 pages.

Chapter 8: 23 pages.