Key Sections in Laser Physics Textbook

Ch 3 Absorption, Emission... of Light

3.2 CEO model

3.3-3.9, 3.11 absorption, lineshapes

3.12 cross section

Ch4 Laser Oscillation: Gain and Threshold

4.1 - 4.5	gain, feedback, threshold, rate equations
4.7, 4.8	3,4 level lasers
4.11	saturation

4.12 small-signal gain4.14 spectral hole burning

Ch 5 Laser Oscillation: Power and Frequency

5.2, 5.3	lasing and	optimum	output	coupling

5.7 inhomogeneous medium

5.8 spectral hole burning and Lamb dip

5.10 single frequency oscillation

Ch 6 Multimode and pulsed lasing

6.1-6.3 rate equations, relaxation oscillations

6.4 Q switching (more discussed in lecture notes)

6.6-6.9 modelocking

Ch 7 Laser Resonators and Gaussian Beams

7.1 - 7.8