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PHYS 689: Modern Atomic Physics (Spring 2016)

Atomic Physics, Christopher J Foot (Oxford Master Series in Physics, Oxford University Press 2011) Atoms, Molecules and Optical Physics 1, Atoms and Spectroscopy, Ingolf V Hertel and Claus-Peter Schulz (Springer-Verlag Berlin-Heidelberg 2015), ISBN: 978-3-64254321-0

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DS Sivia, Elementary Scattering Theory for X-ray and Neutron Users, Oxford University Press, 2011 An excellent introduction to elastic and inelastic scattering theory and the Fourier transform Martin T Dove, Structure and Dynamics: An Atomic View of Materials, Oxford Master Series in Physics, 2003 Covers much the same materials as

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Course Outline: Physics 475: Atomic and Molecular Physics

2 Text: Atomic Physics, Christopher Foot, Oxford Master Series in Atomic, Optical, and Laser Physics 3 Other references: Foot is a good book and is packed with information but it does not include a lot of background derivations You should have enough knowledge from the prerequisite

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