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independent schrodinger equation for bound states using a matrix method for finding the eigenvalues and eigenvectors of the energy operator time evolution of the wavefunction stationary and compound states hydrogen like atoms and ions solutions to the 3d schrodinger equation the cartesian coordinates for the source s an aperture point q and an observation point p are $s_x s_y s_z$ $q_x q_y q_z$ 0 and $p_x p_y p_z$ in using the mscripts op rs point source m or op rs point source z m the source must be located on the optical axis z axis in this course we use simulations written by the students in matlab to increase their understanding of the physical systems studied to explore the limitations of theory and to relate theory to experiment special functions in physics with matlab focuses on special functions in physics in the real and complex domain it covers more than 170 different functions with additional numerical hints for efficient computation which are useful to anyone who needs to 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