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free high quality physics lessons for anyone anywhere we begin our study of waves in this first unit of physics 7c with an introduction to waves and then a thorough development of the harmonic plane wave model which we will use extensively to model and understand a wide variety of wave phenomena this chapter is the first of three that deal in detail with the wave equation for three different types of waves mechanical waves are described in this chapter chapter 5 discusses electromagnetic waves and chapter 6 is all about quantum mechanical waves four major sections look at coastal geology beaches reefs rivermouths climate and big waves climatic cycles storminess and surf searching for the biggest waves controlling the waves chapter 6 deals with the quantum wave equation matter waves are discussed and the time independent and time dependent schrodinger equations are introduced probability density and the method for normalizing wave functions is briefly explained along with quantum wave packets

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