

CHAPTER OVERVIEW

6: Waves

- [6.1: Frequency](#)
- [6.2: Phase](#)
- [6.3: The Frequency-Wavenumber Covector](#)
- [6.4: Duality](#)
- [6.5: The Doppler Shift and Aberration](#)
- [6.6: Phase and Group Velocity](#)
- [6.7: Abstract Index Notation](#)
- [6.E: Waves \(Exercises\)](#)

Thumbnail: Two-dimensional representation of gravitational waves generated by two neutron stars orbiting each other. (Public Domain; NASA).

This page titled [6: Waves](#) is shared under a [CC BY-SA 4.0](#) license and was authored, remixed, and/or curated by [Benjamin Crowell](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.