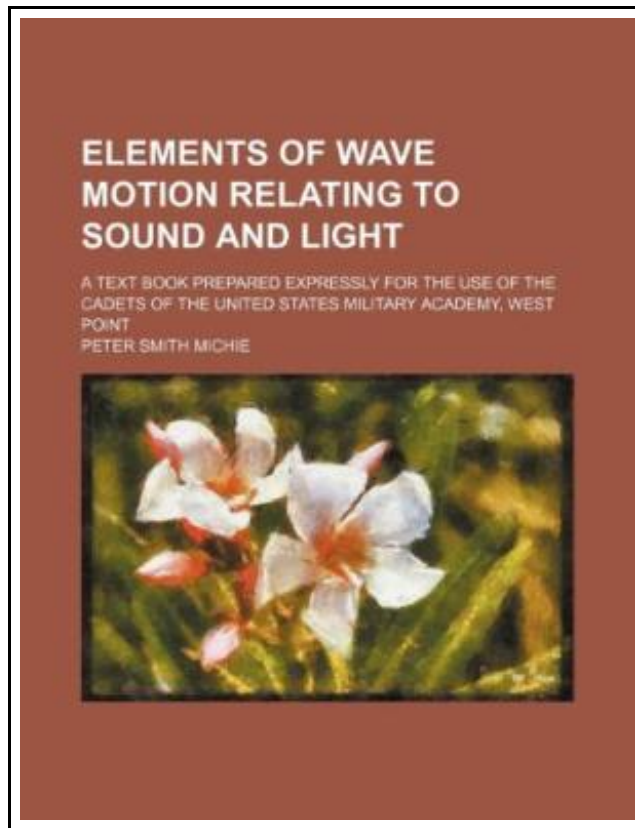


# Elements of Wave Motion Relating to Sound and Light; A Text Book Prepared Expressly for the Use of the Cadets of the United States Military Academy, West Point



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## ***Reviews***

*Extremely helpful for all type of folks. It generally is not going to expense a lot of. I found out this book from my dad and i advised this book to find out.*

***(Melany Goyette)***

## ELEMENTS OF WAVE MOTION RELATING TO SOUND AND LIGHT; A TEXT BOOK PREPARED EXPRESSLY FOR THE USE OF THE CADETS OF THE UNITED STATES MILITARY ACADEMY, WEST POINT



Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1882 Excerpt: .parallel to the sides of the membrane, and whose numbers are represented by  $n$  and  $n$  . 3. The nodal lines which correspond to the same sound form a system of figures, such that we can pass from one to the other by continuous changes in varying the mode of disturbance, without changing the sound; but we can never pass in a continuous manner from the lines of one sound to those of another. Circular membranes can only give nodal lines along the diameters or circumferences, either separate or combined, depending on the method of vibration and on the point or points of enforced rest. 239. Because of the limited time allotted to this part of the course, many subjects of importance are necessarily omitted in the text. Among these are, 1. The theory of beats, and resultant sounds. 2. The phenomena of interference, whose consequences, however, are readily derived from the discussion in Arts. 65-68. 3. The graphical and optical methods of the study of sonorous vibrations, and that by sensitive and manometric flames. 4. The phenomena of vibrations of air columns in organ-pipes, of elastic rods, of plates and membranes, with the applications of the latter in the phonograph, phonautograph, and telephone. By means, however, of a very complete acoustical apparatus, mainly from the workshop of Koenig, the celebrated physicist of Paris, the omitted parts, as well as those treated of above, are illustrated in the lectures, which largely supplement and complete the study of...



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