
Preface to the Second English Edition

The first English edition of Pohl's "*Physical Principles of Mechanics and Acoustics*" appeared in 1932 (published by Blackie & Son, Ltd., London and Glasgow). It was based on the second edition of Pohl's "*Einführung in die Physik, Mechanik und Akustik*" (Julius Springer, 1931). The present new, second English edition, based on the 21st edition of "*Pohls Einführung in die Physik*", Vol. 1, (*Mechanik, Akustik und Wärmelehre*) (Springer Spektrum, 2017), has now been published after nearly 85 years!

Following R.W. Pohl's death in 1976 and the posthumous appearance of the 18th edition in 1983, since 2004 we have edited three new revised and updated editions, based mainly on the 16th edition (1964), the 13th edition (1955), and the 18th edition. The major change in this new series was the addition of 74 videos demonstrating many of the experiments that R.W. Pohl had developed and used. It is also augmented by comments in the margins when they appeared to be helpful as additional explanations or were needed to provide more modern information (see the Preface to the 19th edition). We have in addition included the collection of exercises which Pohl provided for the first English edition, and we have supplemented these (see the Preface to the 20th edition). The exercises were not included in any of the first 18 German editions. We have furthermore modified some mathematical formulations, symbols, and units so that they conform to the recommendations of the International System of Units (SI).

We gratefully acknowledge the help of Professor W.D. Brewer of the Physics Department of the Free University of Berlin, not only for carrying out the translation of the text with great quality and speed, but also, and this is probably even more important, for his help with the identification and clarification of unclear parts in the text and in our comments. The English-language readers will appreciate the numerous links he added for further information.

We also wish to thank Dr. T. Schneider and Ms. D. Mennecke-Buehler of the Springer-Verlag for making this edition possible, and for their generous help in carrying out its preparation and production.

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