

**SOUND AND MUSIC: A NON-
MATHEMATICAL TREATISE ON THE
PHYSICAL CONSTITUTION OF MUSICAL
SOUNDS AND HARMONY, INCLUDING
THE CHIEF ACOUSTICAL DISCOVERIES
OF PROFESSOR HELMHOLTZ**

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Sound and Music: A Non-Mathematical Treatise on the Physical Constitution of Musical Sounds and Harmony, Including the Chief Acoustical Discoveries of Professor Helmholtz by Sedley Taylor

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SEDLEY TAYLOR

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BY

SEDLEY TAYLOR, M.A.

LATE FELLOW OF TRINITY COLLEGE, CAMBRIDGE.

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TO
SIR WILLIAM STERNDALE BENNETT
(PRINCIPAL),
AND TO THE
PROFESSORS AND STUDENTS,
OF THE
ROYAL ACADEMY OF MUSIC,

THIS VOLUME IS, WITH SINCERE RESPECT, DEDICATED.

P R E F A C E.

THE following treatise, portions of which have been delivered in lectures at the South Kensington Museum, the Royal Academy of Music, and elsewhere, aims at placing before persons unacquainted with Mathematics an intelligible and succinct account of that part of the Theory of Sound which constitutes the physical basis of the Art of Music. No preliminary knowledge, save of Arithmetic and of the musical notation in common use, is assumed to be possessed by the reader. The importance of combining theoretical and experimental modes of treatment has been kept steadily in view throughout.

The author has incorporated the chief Acoustical discoveries of Professor Helmholtz, but adopted his own course in explaining them and developing their connection with the previously established