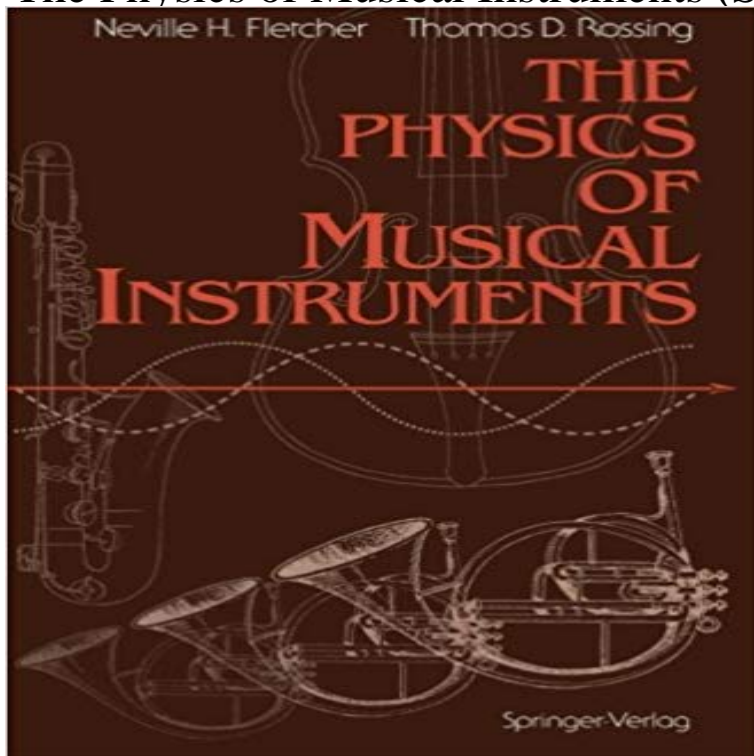


## The Physics of Musical Instruments (Springer Study Edition)



While the history of musical instruments is nearly as old as civilization itself, the science of acoustics is quite recent. By understanding the physical basis of how instruments are used to make music, one hopes ultimately to be able to give physical criteria to distinguish a fine instrument from a mediocre one. At that point science may be able to come to the aid of art in improving the design and performance of musical instruments. As yet, many of the subtleties in musical sounds of which instrument makers and musicians are aware remain beyond the reach of modern acoustical measurements. Indeed, for many musical instruments it is only within the past few years that musical acoustics has achieved even a reasonable understanding of the basic mechanisms determining the tone quality, and in some cases even major features of the sounding mechanism have only recently been unravelled. This book describes the results of such acoustical investigations ? intellectual and practical exercises of great fascination.

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