

Guitar Experiment Assisting for Comprehension on String Vibration Function

Abstract

An effective and fascinating way to introduce students to abstract mathematical physics functions is through certain subjects students are interested in. And unconsciously students strengthen their understanding of physics concepts and principles. As for the course, methods of mathematical physics (this course is also named mathematical physical functions in some universities), some students complain that they have less command of such mathematics physical methods and functions, since they're very abstract. Therefore, it's significant that teachers improve physics pedagogy to help introductory physics students grasp those dense mathematics physical functions. Hence, we design a practical and straightforward experiment, focusing on students' understanding of the String Vibration Function. Moreover, if students have a comprehensive command of String Vibration Function, they are likely to grasp modal analysis, which's bound to be further their study and research.