Exploring the mechanism of active noice calcelation

Mathematical Exploration

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# Introduction

Since I was young, I have always found music inspiring, and I would always carry around a Walkman with me where ever I go. I grew up in a crowded city, and loud noises in public, such as the subways station and the side walk, have always bothered me when I listen to music. This is why when my parents bought me my first active noise cancelling (ANC) headphone when I was in middle school, I was convinced that it functioned on magic.

I learnt the principals which ANC function on last year in my SL physics course. The sound heard by hear is a pressure air of air, with propagating amount of air molecules as moving across the sound wave.