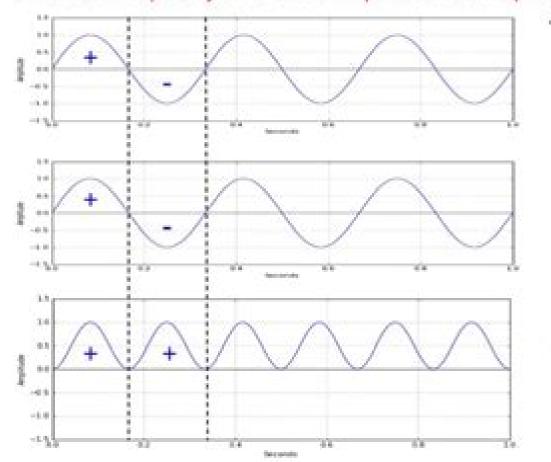
## Digital Audio Fundamentals: Multiplying/Squaring Signals



Computer Science

But what happens in multiplying two sine waves when the frequencies of the two sine waves is the same? Why does this result not hold? Multiplying two identical sine waves (i.e., squaring it) produces a sine wave of twice the frequency but shifted in phase and amplitude:



Average Sample:

0.0

0.0

0.25

This is consistent with the "half angle formula" for cos:

 $\sin^2 x = \frac{1 - \cos(2x)}{2}$ 

(Obvious) Note: All the values in the squared wave are ≥ 0. Average is > 0.

# **Squaring The Waves**

**Beverly F Sharp** 

#### **Squaring The Waves:**

Process of Aging David Popenoe, Richard H. Williams, 2018-10-26 Processes of Aging Social and Psychological Perspectives is based on a monumental series of studies on the psychological and social aspects of aging in relation to mental health This effort gives scientists from North America and Europe an opportunity to explore the concepts methodological problems and conclusions of their researches in the rapidly growing field of gerontology Much work has been done in an attempt to present this material in sequential and systematic fashion Original work of sixty six research workers from twelve countries is represented in this two volume set They offer an inventory of principal fields of gerontological research in advanced countries Human aging in its many ramifications is becoming one of the major areas of research interest among an increasing number of students in the biological behavioral and social sciences Although the phenomena of aging were largely overlooked as subject matter for research during the early stages in the development of all basic sciences it was inevitable that students would eventually become curious about the final processes of maturation Events of recent years have hastened the need for social action on behalf of older people and consequently the need for scientific knowledge about their characteristics circumstances and requirements Processes of Aging Social and Psychological Perspectives will be of interest to research workers teachers and advanced students concerned with the psychological psychiatric psychosocial and socioeconomic aspects of aging Many of the theoretical and analytical discussions and the specific studies offer guidance for top level planners and policy administrators in public agencies and voluntary organizations This volume is highly sensitive to older people as such how they feel about themselves and the world and in the way they behave in relation to others It is must reading in the health and welfare of aging **Fast Circuit Boards** Ralph Morrison, 2018-01-31 An essential guide to modern circuit board design based on simple physics and practical applications. The fundamentals taught in circuit theory were never intended to work above a few megahertz let alone at a gigahertz While electronics is grounded in physics most engineers education in this area is too general and mathematical to be easily applied to the problem of high speed circuits Left to their own devices many engineers produce layouts that require expensive revisions in order to finally meet specifications Fast Circuit Boards fills the gap in knowledge by providing clear down to earth guidance on designing digital circuit boards that function at high clock rates By making the direct connection between physics and fast circuits this book instills the fundamental universal principles of information transfer to give engineers a solid basis for hardware design Using simple tools simple physics and simple language this invaluable resource walks through basic electrostatics magnetics wave mechanics and more to bring the right technology down to the working level Designed to be directly relevant and immediately useful to circuit board designers this book Properly explains the problems of fast logic and the appropriate tools Applies basic principles of physics to the art of laying out circuit boards Simplifies essential concepts scaled up to the gigahertz level saving time money and the need for revisions Goes beyond circuit theory to provide a deep intuitive

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