Problem 1.26 Determine the period of each of the following waveforms:

- (a) $x_1(t) = \sin 2t$
- (b) $x_2(t) = \cos\left(\frac{\pi}{2}t\right)$
- (c) $x_3(t) = \cos^2\left(\frac{\pi}{3}t\right)$
- (d) $x_4(t) = \cos(4\pi t + 60^\circ) \sin(4\pi t + 60^\circ)$
- (e) $x_5(t) = \cos\left(\frac{4}{\pi}t + 30^\circ\right) \sin(4\pi t + 30^\circ)$

Solution: The period of $A\cos(\omega t + \theta)$ is $\frac{2\pi}{\omega}$ if $\omega \neq 0$.

- (a) The period is $\frac{2\pi}{2} = \pi$. (b) The period is $\frac{2\pi}{\pi/3} = 6$.
- (c) $\cos^2(\frac{\pi}{3}t) = \frac{1}{2} + \frac{1}{2}\cos(2\frac{\pi}{3}t)$. The period is $\frac{2\pi}{2\pi/3} = 3$.
- (d) $\cos(4\pi t + 60^\circ) \sin(4\pi t + 60^\circ) = \sqrt{2}\cos(4\pi t + 105^\circ)$. The period is

$$\frac{2\pi}{4\pi} = \boxed{\frac{1}{2}}.$$

(e) The period of $\cos\left(\frac{4}{\pi}t + 30^{\circ}\right)$ is $\frac{2\pi}{4/\pi} = \frac{\pi^2}{2}$. This repeats every

$$\left\{\frac{\pi^2}{2}, 2\frac{\pi^2}{2}, 3\frac{\pi^2}{2} \dots \right\}$$
.

The period of $-\sin(4\pi r + 30^\circ)$ is $\frac{2\pi}{4\pi} = \frac{1}{2}$. This repeats every $\{\frac{1}{2}, 2(\frac{1}{2}), 3(\frac{1}{2})\dots\}$. So the sum of these two sinusoids is not periodic.

Engineering Signals And Systems Solution Manual

Laurie Kelly, Northrop/RobertB.

Engineering Signals And Systems Solution Manual:

Analog and Digital Signals and Systems R. K. Rao Yarlagadda, 2010-08-05 This book presents a systematic comprehensive treatment of analog and discrete signal analysis and synthesis and an introduction to analog communication theory This evolved from my 40 years of teaching at Oklahoma State University OSU It is based on three courses Signal Analysis a second semester junior level course Active Filters a first semester senior level course and Digital signal processing a second semester senior level course I have taught these courses a number of times using this material along with existing texts The references for the books and journals over 160 references are listed in the bibliography section At the undergraduate level most signal analysis courses do not require probability theory. Only a very small portion of this topic is included here I emphasized the basics in the book with simple mathematics and the soph tication is minimal Theorem proof type of material is not emphasized. The book uses the following model 1 Learn basics 2 Check the work using bench marks 3 Use software to see if the results are accurate The book provides detailed examples over 400 with applications A thr number system is used consisting of chapter number section number example or problem number thus allowing the student to quickly identify the related material in the appropriate section of the book The book includes well over 400 homework problems Problem numbers are identified using the above three number system **Signals and Systems** Matthew N. O. Sadiku, Warsame Hassan Ali, Sarhan M. Musa, 2024-07-31 The idea of signals and systems arises in different disciplines such as science engineering economics politics and medicine Typical examples of systems include radio and television telephone networks radar systems computer networks wireless communication military surveillance systems and satellite communication systems Knowledge of a broad range of signals and systems is of practical value to engineering students because engineers must be familiar with signal and system concepts to analyze some specific signals and systems they will deal with in their professional lives This book is intended to serve as a textbook for junior level students in electrical and computer engineering The main aim of this second edition is to improve the clarity of the first edition and fulfill the same objective as the first which is to present continuous time and discrete time signals and systems to electrical and computer engineering students in a manner that is clearer more interesting and easier to understand than other texts Ultra Wideband Signals and Systems in Communication Engineering M. Ghavami, Lachlan Michael, Ryuji Kohno, 2005-01-14 Ultra Wideband UWB is the hot new topic in wireless communicationengineering today High speed communication over short distances using sub nanosecond pulses rather than conventional sinusoidal waves has paved the way for cheap wireless transceivers capturing the imagination of both academics and engineers in industry alike Ultra Wideband Signals and Systems in CommunicationEngineering focuses on the basic signal processing thatunderlies current and future ultra wideband systems ensuring thistext will be essential reading even as UWB applications mature and change or regulations regarding ultra wideband systems are modified Provides everything you need to know about Ultra WidebandCommunications

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