

1.51. (a) We have

$$e^{i\theta} = \cos \theta + j \sin \theta, \quad (E1.51-1)$$

and

$$e^{-i\theta} = \cos \theta - j \sin \theta. \quad (E1.51-2)$$

Substituting eqs. (E1.51-1) and (E1.51-2) we get

$$\cos \theta = \frac{1}{2}(e^{i\theta} + e^{-i\theta}).$$

(b) Subtracting eq. (E1.51-2) from (E1.51-1) we get

$$\sin \theta = \frac{j}{2}(e^{i\theta} - e^{-i\theta}).$$

(c) We now have $e^{i\theta} e^{-i\theta} = e^{i\theta} e^{i\theta}$. Therefore,

$$\begin{aligned} \cos \theta + j \sin \theta + j \sin \theta + \cos \theta &= (2 \cos \theta + 2j \sin \theta) e^{i\theta} \\ &= 2(\cos \theta + j \sin \theta) e^{i\theta}. \end{aligned} \quad (E1.51-3)$$

Putting $\theta = \theta$ in eq. (E1.51-3), we get

$$\cos \theta + j \sin \theta = e^{i\theta} e^{i\theta}.$$

Putting $\theta = -\theta$ in eq. (E1.51-3), we get

$$1 + \cos^2 \theta + \sin^2 \theta.$$

Adding the two above equations and simplifying,

$$\cos^2 \theta = \frac{1}{2}(1 + \cos 2\theta).$$

(d) Repeating the real parts in eq. (E1.51-3) with arguments $(\theta + \phi)$ and $(\theta - \phi)$ we get

$$\cos(\theta + \phi) = \cos \theta \cos \phi - \sin \theta \sin \phi$$

and

$$\cos(\theta - \phi) = \cos \theta \cos \phi + \sin \theta \sin \phi.$$

Subtracting the two above equations, we obtain

$$\sin \theta \sin \phi = \frac{1}{2}(\cos(\theta - \phi) - \cos(\theta + \phi)).$$

(e) Repeating imaginary parts in eq. (E1.51-3), we get

$$\sin(\theta + \phi) = \sin \theta \cos \phi + \cos \theta \sin \phi.$$

□

(a) Since $r_1 > r_2 > 0$ and $-1 \leq \cos(\theta_1 - \theta_2) \leq 1$,

$$\begin{aligned} |z_1 - z_2|^2 &= |r_1 e^{j\theta_1} - r_2 e^{j\theta_2}|^2 \\ &= r_1^2 + r_2^2 - 2r_1 r_2 \cos(\theta_1 - \theta_2) \\ &\geq r_1^2 + r_2^2 - 2r_1 r_2 \cos(\theta_1 - \theta_2) \\ &\geq (r_1 - r_2)^2 \end{aligned}$$

and

$$|z_1 + z_2|^2 = r_1^2 + r_2^2 + 2r_1 r_2 \cos(\theta_1 - \theta_2) \geq (r_1 + r_2)^2.$$

1.52. (a) For $a = 1$, it is fairly obvious that

$$\sum_{n=0}^{\infty} a^n = N.$$

For $a \neq 1$, we may write

$$(1 - a) \sum_{n=0}^{\infty} a^n = \sum_{n=0}^{\infty} a^n - \sum_{n=1}^{\infty} a^n = 1 - a^N.$$

Therefore,

$$\sum_{n=0}^{\infty} a^n = \frac{1 - a^N}{1 - a}.$$

(b) For $|a| < 1$,

$$\lim_{N \rightarrow \infty} a^N = 0.$$

Therefore, from the result of the previous part,

$$\lim_{N \rightarrow \infty} \sum_{n=0}^N a^n = \sum_{n=0}^{\infty} a^n = \frac{1}{1 - a}.$$

(c) Differentiating both sides of the result of part (b) w.r.t. a , we get

$$\begin{aligned} \frac{d}{da} \left(\sum_{n=0}^{\infty} a^n \right) &= \frac{d}{da} \left(\frac{1}{1 - a} \right) \\ \sum_{n=0}^{\infty} n a^{n-1} &= \frac{1}{(1 - a)^2}. \end{aligned}$$

(d) We may write

$$\sum_{n=0}^{\infty} n a^n = a^2 \sum_{n=2}^{\infty} n a^{n-2} = \frac{a^2}{1 - a} \quad \text{for } |a| < 1.$$

1.53. (a) The desired sum is

$$\sum_{n=0}^{\infty} j^n e^{j\theta} = \frac{1 - (-1)^N e^{j\theta}}{1 - (-1) e^{j\theta}} = 1 + j.$$

□

1.53. (a) $e^{j\theta} = \cos \theta + j \sin \theta$ and $e^{-j\theta} = \cos \theta - j \sin \theta$

(b) $e^{j\theta} = \cos \theta + j \sin \theta$ and $e^{-j\theta} = \cos \theta - j \sin \theta$

(c) $e^{j\theta} = \cos \theta + j \sin \theta$ and $e^{-j\theta} = \cos \theta - j \sin \theta$

(d) $e^{j\theta} = \cos \theta + j \sin \theta$ and $e^{-j\theta} = \cos \theta - j \sin \theta$

(e) $e^{j\theta} = \cos \theta + j \sin \theta$ and $e^{-j\theta} = \cos \theta - j \sin \theta$

(f) Consider $\cos \theta = \frac{e^{j\theta} + e^{-j\theta}}{2}$

$$\cos \theta e^{j\theta} = \frac{1}{2}(e^{j\theta} + e^{-j\theta})e^{j\theta} = \frac{1}{2}(e^{2j\theta} + e^{j\theta})$$

For $a < 1$, $a = |e^{j\theta}|$. Therefore,

$$\cos \theta e^{j\theta} = \frac{1}{2}(e^{2j\theta} + e^{j\theta}) = \frac{1}{2}(e^{2j\theta} + e^{j\theta}) = \cos \theta e^{j\theta}.$$

(g) For $\theta = 0$,

$$\left(\frac{1}{2} \right)^N = \frac{1}{2^N} e^{jN\theta} = \frac{1}{2^N} e^{jN \cdot 0} = \frac{1}{2^N}$$

(h) From (c), we get

$$N \cos \left(\frac{\theta}{2} \right) = \frac{1}{2} \left[\left(\frac{1}{2} \right)^N + \left(\frac{1}{2} \right)^N \right]$$

Using (g) in this, we get

$$N \cos \left(\frac{\theta}{2} \right) = \frac{1}{2} \left[\left(\frac{1}{2} \right)^N + \left(\frac{1}{2} \right)^N \right] = \frac{1}{2} \left[\frac{1 - (-1)^N e^{jN\theta}}{1 - (-1) e^{j\theta}} \right].$$

1.54. (a) $e^{j\theta} = \cos \theta + j \sin \theta$ and $e^{-j\theta} = \cos \theta - j \sin \theta$

(b) Let $r_1 = r_2 = 1$ and $\theta_1 = \theta_2 = \theta$. Then,

$$\begin{aligned} |z_1 - z_2| &= |e^{j\theta} - e^{j\theta}| = 0 \\ |z_1 + z_2| &= |e^{j\theta} + e^{j\theta}| = 2|e^{j\theta}| = 2 \end{aligned}$$

(c) $|z_1| = |e^{j\theta}| = 1$ and $|z_2| = |e^{j\theta}| = 1$

(d) $|z_1 z_2| = |e^{j\theta} e^{j\theta}| = |e^{2j\theta}| = 1$ and $|z_1/z_2| = |e^{j\theta}/e^{j\theta}| = 1$

(e) Since $a = 1 + j$, $|a| = \sqrt{1^2 + 1^2} = \sqrt{2}$. By the triangle inequality,

$$|z_1 + z_2| = |a + a| \leq \sqrt{2}|a| = |a|$$

and

$$|z_1 - z_2| = |a - a| \leq \sqrt{2}|a| = |a|.$$

(f) $|z_1 z_2| = |a a| = |a|^2 = 2$ and $|z_1/z_2| = |a/a| = 1$

□

(a) The desired sum is

$$\sum_{n=0}^{\infty} j^n e^{j\theta} = \frac{1 - (-1)^N e^{j\theta}}{1 - (-1) e^{j\theta}} = 1 + j.$$

(b) The desired sum is

$$\sum_{n=0}^{\infty} (1 + j)^n e^{j\theta} = \frac{1 - (-1)^N (1 + j)^N e^{j\theta}}{1 - (-1)(1 + j) e^{j\theta}} = \frac{1}{1 + j} + j^2.$$

(c) The desired sum is

$$\sum_{n=0}^{\infty} (1 + j)^n e^{j\theta} = (1 + j)^N e^{j\theta} \sum_{n=0}^{\infty} (1 + j)^{-n} e^{-j\theta} = -\frac{1}{2} \left[\frac{1}{2} + j^2 \right].$$

(d) The desired sum is

$$\sum_{n=0}^{\infty} \cos(n\theta) = \frac{1}{2} \sum_{n=0}^{\infty} e^{jn\theta} + \frac{1}{2} \sum_{n=0}^{\infty} e^{-jn\theta} = \frac{1}{2}(1 + j) + \frac{1}{2}(1 - j) = 1.$$

(e) The desired sum is

$$\begin{aligned} \sum_{n=0}^{\infty} (1 + j)^n \cos(n\theta) &= \frac{1}{2} \sum_{n=0}^{\infty} (1 + j)^n e^{jn\theta} + \frac{1}{2} \sum_{n=0}^{\infty} (1 + j)^n e^{-jn\theta} \\ &= \frac{1}{2} \left[\frac{1}{1 + j} + j^2 \right] + \frac{1}{2} \left[\frac{1}{1 + j} + j^2 \right] = \frac{1}{2} \end{aligned}$$

1.56. (a) The desired integral is

$$\int_0^{\infty} e^{-t} dt = \frac{e^{-t}}{-1} \Big|_0^{\infty} = 1.$$

(b) The desired integral is

$$\int_0^{\infty} e^{-t} dt = \frac{e^{-t}}{-1} \Big|_0^{\infty} = -(-1) = 1.$$

(c) The desired integral is

$$\int_0^{\infty} e^{-t} dt = \frac{e^{-t}}{-1} \Big|_0^{\infty} = -(-1) = 1.$$

(d) The desired integral is

$$\int_0^{\infty} e^{-t} dt = \frac{e^{-t}}{-1} \Big|_0^{\infty} = -(-1) = 1.$$

□

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**John R. Buck, Michael M.
Daniel, Andrew Singer**



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Buck, Michael M. Daniel, Andrew Singer, 2002 For undergraduate courses on Signals and Linear Systems This book contains a comprehensive set of computer exercises of varying levels of difficulty covering the fundamentals of signals and systems The exercises require the reader to compare answers they compute in MATLAB R with results and predictions made based on their understanding of the material The book is compatible with any introductory course or text on signals and systems

Introduction to Random Signals and Applied Kalman Filtering with Matlab Exercises and Solutions Robert Grover Brown, Patrick Y. C. Hwang, 1997 In this updated edition the main thrust is on applied Kalman filtering Chapters 1 3 provide a minimal background in random process theory and the response of linear systems to random inputs The following chapter is devoted to Wiener filtering and the remainder of the text deals with various facets of Kalman filtering with emphasis on applications Starred problems at the end of each chapter are computer exercises The authors believe that programming the equations and analyzing the results of specific examples is the best way to obtain the insight that is essential in engineering work Nonlinear Dynamics and Chaos with Student Solutions Manual Steven H.

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Raveendranathan, 2024-10-30 The reference text discusses signal processing tools and techniques used for the design testing and deployment of communication systems It further explores software simulation and modeling tools like MATLAB GNU Octave Mathematica and Python for modeling simulation and detailed analysis leading to comprehensive insights into communication systems The book explains topics such as source coding pulse demodulation systems and the principle of sampling and aliasing This book Discusses modern techniques including analog and digital filter design and modulation principles including quadrature amplitude modulation and differential phase shift keying Covers filter design using MATLAB system simulation using Simulink signal processing toolbox linear time invariant systems and non linear time variant systems Explains important pulse keying techniques including Gaussian minimum shift keying and quadrature phase shift keying Presents signal processing tools and techniques for communication systems design modeling simulation and deployment Illustrates topics such as software defined radio SDR systems spectrum sensing and automated modulation sensing The text is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer science and engineering Contemporary Linear Systems Using MATLAB Robert D. Strum, Donald E. Kirk, 1994 This is a title in the PWS series BookWare Companion Series It is a set of correlated self contained courseware modules covering fundamental concepts in engineering and applied

mathematics Students work through example problems electronically and are encouraged to experiment with problems and data in an electronic lab setting Each BookWare Companion features a software script for the electronic examples based on a popular applications software package for the IBM PC or the Macintosh and a printed volume containing computer based exploration exercises and a variety of learning aids and hints The text bolstered by illustrative examples 200 problems and MATLAB exploration exercises on the accompanying data disk should enable students to work with linear systems problems in a virtual laboratory at the computer changing problem values at will in a what if fashion

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Symbolic and Knowledge-based Signal Processing Alan V. Oppenheim, Syed Hamid Nawab, 1992 Aimed at signal processors and computer scientists this book of self contained discussions explores how computer science can enhance the performance of signal processing systems and their design

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Adaptive Digital Filters and Signal Analysis Maurice Bellanger, 1987 This text emphasizes the intricate relationship between adaptive filtering and signal analysis highlighting stochastic processes signal representations and properties analytical tools and implementation methods

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