1.31. (a) We have

$$e^{i\theta} = \cos\theta + i\sin\theta. \tag{31.31-1}$$

and

$$e^{-i\theta} = \cos\theta - i\sin\theta. \tag{31.31-2}$$

Subtracting eqs. (31.31-2) and (31.31-1) we get

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

(b) Subtracting eq. (31.31-2) from (31.31-1) we get

$$\sin\theta = \frac{1}{2i}\left(e^{i\theta} - e^{-i\theta}\right).$$

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

$$\begin{aligned}\cos(\theta+\phi) + i\sin(\theta+\phi) &= (\cos\theta\cos\phi - \sin\theta\sin\phi)\\ &\quad + i(\sin\theta\cos\phi + \cos\theta\sin\phi)\end{aligned} \tag{31.31-3}$$

Putting $\theta = \phi$ in eq. (31.31-3), we get

$$\cos 2\theta = \cos^2\theta - \sin^2\theta.$$

Putting $\theta = -\phi$ in eq. (31.31-3), 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) Equating the real parts in eq. (31.31-3) 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) Equating imaginary parts in eq. (31.31-3), we get

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

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

$$\begin{aligned}(|z_1| - |z_2|)^2 &= r_1^2 + r_2^2 - 2r_1r_2\\ &\ge r_1^2 + r_2^2 + 2r_1r_2\cos(\theta_1 - \theta_2)\\ &= |z_1 + z_2|^2\end{aligned}$$

and

$$(|z_1| + |z_2|)^2 = r_1^2 + r_2^2 + 2r_1r_2 \ge |z_1 + z_2|^2.$$

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

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

For $a \neq 1$, we may write

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

Therefore,

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

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

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

Therefore, from the result of the previous part,

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

(c) Differentiating both sides of the result of part (b) wrt 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

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

1.35. (a) The desired sum is

$$\sum_{n=0}^{N} e^{in\pi/2} = \frac{1 - e^{i(N+1)\pi/2}}{1 - e^{i\pi/2}} = 1 + j.$$

1.32. (a) $xx^* = re^{i\theta}re^{-i\theta} = r^2$

(b) $x/x^* = re^{i\theta}/re^{-i\theta} = e^{2i\theta}$

(c) $x + x^* = x + jy + x - jy = 2x = 2\mathrm{Re}\{x\}$

(d) $x - x^* = x + jy - x + jy = 2jy = 2j\mathrm{Im}\{x\}$

(e) $|x_1 + x_2|^2 = (|x_1 + x_2|)^2 = (|x_1| - |x_2| + |x_1| + |x_2|)^2 = (|x_1| - |x_2|)^2 + 4|x_1||x_2| + (|x_1| + |x_2|)^2 \ge 4|x_1||x_2|$

(f) Consider $(ax_1, x_2)^*$. For $a > 0$,

$$(ax_1, x_2)^* = (ar_1r_2e^{i(\theta_1+\theta_2)})^* = ar_1r_2e^{-i(\theta_1+\theta_2)} = ax_1^*x_2.$$

For $a < 0$, $a = |a|e^{i\pi}$. Therefore,

$$(ax_1, x_2)^* = (|a|r_1r_2e^{i(\theta_1+\theta_2+\pi)})^* = |a|r_1r_2e^{-i(\theta_1+\theta_2)}e^{-i\pi} = ax_1^*x_2.$$

(g) For $|x_2| \neq 0$,

$$\left(\frac{x_1}{x_2}\right)^* = \frac{r_1}{r_2}e^{-i(\theta_1-\theta_2)} = \frac{r_1e^{-i\theta_1}}{r_2e^{-i\theta_2}} = \frac{x_1^*}{x_2^*}.$$

(h) From (c), we get

$$\mathrm{Re}\{x_1x_2^*\} = \frac{1}{2}\left[(x_1x_2^*) + (x_1x_2^*)^*\right]$$

Using (g) on this, we get

$$\mathrm{Re}\{x_1x_2^*\} = \frac{1}{2}\left[(x_1x_2^*) + (x_1^*x_2)\right] = \frac{1}{2}\left[x_1x_2^* + x_1^*x_2\right]$$

1.33. (a) $(x^n)^* = (r^ne^{in\theta})^* = r^ne^{-in\theta} = (x^*)^n$.

(b) Let $x_1 = x_1x_2^*$ and $x_2 = x_2^*x_1$. Then,

$$\begin{aligned}x_1 + x_2^* = x_2^* + x_1 &\Rightarrow x_1 + x_2^* = 2\mathrm{Re}\{x_1\} = 2\mathrm{Re}\{x_2^* + x_1\}\\ &\Rightarrow x_2^* = x_1 = 2\mathrm{Re}\{x_1\} = 2\mathrm{Re}\{x_2^*\}\end{aligned}$$

(c) $|x| = |xe^{i\pi}| = x = |xe^{-i\pi}| = |x^*|$

(d) $|x_1x_2| = |r_1r_2e^{i(\theta_1+\theta_2)}| = |r_1r_2| = |r_1||r_2| = |x_1||x_2|$

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

$$\mathrm{Re}\{x\} = a \le \sqrt{a^2 + b^2} = |x|$$

and

$$\mathrm{Im}\{x\} = b \le \sqrt{a^2 + b^2} = |x|.$$

(f) $|x_1x_2^* + x_2^*x_1| = |2\mathrm{Re}\{x_1x_2^*\}| = |2r_1r_2\cos(\theta_1 - \theta_2)| \le 2r_1r_2 = 2|x_1x_2|$.

(b) The desired sum is

$$\sum_{n=0}^{N} e^{jn\pi/2} = e^{-jN\pi/4}\sum_{n=0}^{N} e^{jn\pi/2} = -(1 + j).$$

(c) The desired sum is

$$\sum_{n=0}^{N}(1/2)^n e^{jn\pi/2} = \frac{1}{1 - (1/2)e^{j\pi/2}} = \frac{4}{5} + j\frac{2}{5}.$$

(d) The desired sum is

$$\sum_{n=0}^{N}(1/2)^n e^{jn\pi/2} = (1/2)^N e^{jN\pi/2}\sum_{n=0}^{N}(1/2)^n e^{jn\pi/2} = -\frac{4}{5}\left[\frac{4}{5} + j\frac{2}{5}\right].$$

(e) The desired sum is

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

(f) The desired sum is

$$\begin{aligned}\sum_{n=0}^{N}(1/2)^n\cos(n\pi/2) &= \frac{1}{2}\sum_{n=0}^{N}(1/2)^n e^{jn\pi/2} + \frac{1}{2}\sum_{n=0}^{N}(1/2)^n e^{-jn\pi/2}\\ &= \frac{4}{5} + j\frac{2}{10} + \frac{4}{5} - j\frac{2}{10} = \frac{8}{5}\end{aligned}$$

1.36. (a) The desired integral is

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

(b) The desired integral is

$$\int_0^\infty te^{-\alpha t}dt = \frac{te^{-\alpha t}}{-\alpha}\Big|_0^\infty - \int_0^\infty \frac{e^{-\alpha t}}{-\alpha}dt = \frac{1}{\alpha^2}.$$

(c) The desired integral is

$$\int_0^\infty t^2e^{-\alpha t}dt = \frac{t^2e^{-\alpha t}}{-\alpha}\Big|_0^\infty - \int_0^\infty \frac{te^{-\alpha t}}{-\alpha}dt = \frac{2}{\alpha^3}.$$

(d) The desired integral is

$$\int_0^\infty e^{-(1+j)t}dt = \frac{e^{-(1+j)t}}{-(1+j)}\Big|_0^\infty = \frac{1}{1+j} = \frac{1-j}{2}.$$

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Maurice Bellanger

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Continuous and Discrete-Time Signals and Systems Athanasios I. Margaris,2025-08-30 This textbook provides a detailed study of continuous and discrete time signals and systems at a theoretical as well as a practical level for undergraduate as well as graduate students The book follows a didactic approach allowing the students to acquire a solid knowledge and skill required for the study of more advanced subjects such as telecommunications as well as automatic control systems The detailed presentation of the theory in this book is accompanied by many examples as well as hundreds of solved and unsolved exercises that help the reader to gain immediately a deep understanding of the presented material and the way it is used in practice Because of the mathematical complexity associated with the presented material this book requires a good knowledge of basic concepts from linear algebra and mathematical analysis such as for example elements of matrix theory the concepts of the derivative and the integral as well as the knowledge of the main aspects associated with differential and difference equations for the continuous and the discrete time domain respectively Special emphasis should also be given to well known techniques that allow the estimation of the inverse transforms such as polynomial division partial fractions expansion as well as the methods of residues for the estimation of integrals of complex functions **Discrete-Time Signals and Systems** Oktay Alkin,2025-03-27 Drawing on author s 30 years of teaching experience Discrete Time Signals and Systems A MATLAB Integrated Approach represents a novel and comprehensive approach to understanding signals and systems theory Many textbooks use MATLAB as a computational tool but Alkin s text employs MATLAB both computationally and pedagogically to provide interactive visual reinforcement of fundamental concepts important in the study of discrete time signals and systems In addition to 204 traditional end of chapter problems and 160 solved examples the book includes hands on MATLAB modules consisting of 108 MATLAB based homework problems and projects coordinated with the traditional end of chapter problems 44 live scripts and GUI based interactive apps that animate key figures and bring core concepts to life Downloadable MATLAB code for most of the solved examples 92 fully detailed MATLAB exercises that involve step by step development of code to simulate the relevant signal and or system being discussed including some case studies on topics such as real time audio processing synthesizers electrocardiograms sunspot numbers etc The ebook version includes clickable links that allow running MATLAB code associated with solved examples and exercises in a browser using the online version of MATLAB It also includes audio and video files for some of the examples Each module or application is linked to a specific segment of the text to ensure seamless integration between learning and doing The aim is to not simply give the student just another toolbox of MATLAB functions but to use the development of MATLAB code as part of the learning process or as a litmus test of students understanding of the key concepts All relevant MATLAB code is freely available from the publisher In addition a solutions manual figures presentation slides and other ancillary materials are available for instructors with qualifying course adoption **Computer Explorations in Signals and Systems Using MATLAB** John R.

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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. Strogatz,2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors **Signal Processing Techniques for Communication** K.C. 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

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dedicado a su música en ese momento el joven comenzó a componer y sus primeras obras fueron interpretadas por una orquesta de alumnos de a s internado de la ciudad donde fue violinista en 1813 se jubila para empezar a trabajar como

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