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7/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 1/323The Z TransformExercis 3.2.31(a)F(z) =k=0(1/4)kzk=111/4z=4z41if | z |> 1/41(b)F(z) =k=03kzk=11 3/z =zz 3 if | z |> 31(c)F(z) =k=0(2)kzk=11 2/z = zz 2 if | z |> 21(e)Z(k) = z(z 1)2 if | z |> 1from (3.6) whenceZ{3k} = 3 z(z 1)2 if | z |> 12uk = e2kT =e2TkwhenceU(Z) =zze2TcPearson Education Limited 20047/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 2/32160 Glyn James: Advanced Modern Engineering Mathematics, Third editionExercises 3.3.63Z(sin kT) = 12zz eT =z sin Tz 2z cos T + 14Z{12k} = 2z21soZ{yk} = 1z 3 2z2z 1 =2z2(2z 1)Proceeding directlyZ{yk} =k=3kk3zk=r=0xrzr+3=1z3Z {xk} = 2z2(2z 1)5(a)Z15=r=015zr=5z5z + 1| z |> 155(b){cos k} = (1)ksoZ {cos k} =zz + 1 |z|> 16Z12k=2z2z 1By (3.5)Z(ak) = zz asoZ(kak1) =z(z a)2cPearson Education Limited 20047/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 3/327/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 4/32162 Glyn James: Advanced Modern Engineering Mathematics, Third edition9 Final value theorem1 z1)X(z) =r=0xr xr1zr= x0 +x1 x0z+x2 x1z2+ . . . +xr xr1zr+ . . .As z 1 and if limr xr exists, thenlimz1(1 z1)X(z) = limrxr10 Multiplication property (3.19): Let Z {xk} =k=0xkzk= X(z) thenZ{kxk} = k=0akzk= X(z/a)10 Multiplication property (3.20)z ddx(z) = z ddxk=0xkzk=k=0xkzk= Z {kxk}The general result follows by induction.Exercises 3.4.211(a)zz 1, from tables uk = 111(b)zz + 1=zz (1) ; from tables uk = (1)k1(c)zz1/z; from tables uk = (1/2)kcPearson Education Limited 20047/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 5/32Glyn James: Advanced Modern Engineering Mathematics, Third edition 16311(d)z3z + 1= 13zz + 1/3 13(1/3)k11(e)zz ; from tables uk = (k)11(f)zz +2=zz (2) (2)k11(g)1z 1 = 1zzz 1 0; k = 01; k > 0using first shift property.11(h)z + 2z + 1 = 1 +1zzz + 1 1; k = 0(1)k1; k > 0=1; k = 0(1)k+1; k > 012(a)Y(z)/z =131z 1 131z + 2soY(z) =13z 1 13z + 2 131 (2)k12(b)Y(z) =17zz 3 zz + 1/2 17(3)k (1/2)k12(c)Y(z) =13zz1+16zz + 1/2 13+16(1/2)kcPearson Education Limited 20047/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 6/32164 Glyn James: Advanced Modern Engineering Mathematics, Third edition12(d)Y(z) = 23zz 1/2 23 zz + 1 23 (1/2)k 23(1)k=23(1/2)k +23(1)k+112(e)Y(z) =12zz zz ()=12 zz e /2 zz e /2 12(e /2)k (e /2)k= sin k/212(f)Y(z) =zz (3 +) z (3)=12 zz(3 +) zz(3)=12zz 2e /6 zz 2e /6 122kek/6 2kek/6= 2k sin k/612(g)Y(z) =52z(z 1)2 +14zz 1 14zz 3 52k +141 3k12(h)Y(z)/z =z(z 1)2(z2 z + 1) =1(z 1)2 1z2 z + 1soY(z) =z(z 1)2 13zz1+3z 2z132cPearson Education Limited 20047/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 7/32Glyn James: Advanced Modern Engineering Mathematics, Third edition 165= z(z 1)2 13zz e /3 zz e /3 k 23sin k/3 = k +23cos(k/3 3/2)13(a)X(z) =k=0xkzk=1z+2z7whence x0 = 0, x1 = 1, x2 = x3 = . . . = x6 = 0, x7 = 2 and xk = 0, k > 7 .13(b) Proceed as in Example 13(a).13(c) Observe that3z + z2 + 5z5z5 = 5 +1z3+3z4and proceed as in Example 13(a).13(d)Y(z) =1z2+1z3+zz + 1/3 {0, 0, 1, 1} + {(1/3)k}13(e)Y(z) = 1 +3z+1z2 1/2z + 1/2 {1, 3, 1} 120, k = 0(1/2)k, k 1=1, k = 05/2, k = 15/4, k = 212(1/2)k1, k3=1, k = 05/2, k = 15/4, k = 218(1/2)k3, k3cPearson Education Limited 20047/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 8/32166 Glyn James: Advanced Modern Engineering Mathematics, Third edition13(f)Y(z) = 1z 1 2z 1)2 +1z 20, k = 01 2(k 1) + 2k1, k 1=0, k = 03 2k + 2k1, k 113(g)Y(z) =2z 1 1z 20, k = 02 2k1, k 1Exercises 3.5.314(a) If the signal going into the left D-block is wk and that going into the rightD-block is vk, we haveyk+1 = vk vk+1 = wk = xk 12vksoyk+2 = vk+1 = sk 12vk= xk 12 vk = xk 12 yk+1e.yk+2 +12yk+1 = xk14(b) Using the same notationyk+1 = vk, vk+1 = wk = xk 14vk 15ykPearson Education Limited 20047/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 9/32Glyn James: Advanced Modern Engineering Mathematics, Third edition 167Thenyk+2 = xk 14yk+1 15ykoryk+2 +14yk+1 +15yk = xk15(a)z2Y(z) z2y0 zyl 2(zY(z) zy0) + Y(z) = 0with y0 = 0, y1 = 1Y(z) =z(z 1)2so yk = k, k 0.15(b) Transforming and substituting for y0 and y1Y(z)/z =2z 15(z 9)(z + 1)soY(z) =310zz 9 1710zz + 1thusyk =3109k 1710(1)k, k 015(c) Transforming and substituting for y0and y1Y(z) =z(z 2)(z + 2)=14zz 2e /2 zz 2e /2thusyk =142k ek/2 ek/2 = 2k1 sin k/2, k 0cPearson Education Limited 20047/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 10/32168 Glyn James: Advanced Modern Engineering Mathematics, Third edition15(d) Transforming, substituting for y0 and y1, and rearrangingY(z)/z =6z 11(2z + 1)(z 3)soY(z) = 2zz + 1/2+zz 3thusyk = 2(1/2)k + 3k, k 016(a)6yk+2 + yk+1 yk = 3, y0 = y1 = 0Transforming with y0 = y1 = 0,(6z2 + z 1)Y(z) = 3zz 1soY(z)/z =3(z 1)(3z 1)(2z + 1)andY(z) =12zz 1 910zz 1/3 +25zz + 1/2Invertingyk =12 910(1/3)k +25(1/2)k16(b) Transforming with y0 = 0, y1 = 1,(z2 5z + 6)Y(z) = z + 5 zztwhenceY(z) =52zz 1 +72zz 3 6zz 2soyk =52+72(3)k 6(2)k16(c) Transforming with y0 = y1 = 0,(z2 5z + 6)Y(z) =zz 1/2cPearson Education Limited 20047/30/2019 Solucionario parte 3 Matematicas Avanzadas para Ingeniera - 2da Edicin - Glyn James 11/32Glyn James: Advanced Modern Engineering Mathematics, Third edition 169soY(z) = 415zz 1/2 23 zz 2 + 25 zz 3whenceyn =415(1/2)k 23(2)k +25(3)k16(d) Transforming with y0 = 1, y1 = 0 ,(z2 3z + 3)Y(z) = z2 3z + zz 1soY(z) =zz 1 zz2 3z + 3=zz 1 13zz 3+3jz zz 33j2=zz 1 13jzz 3e/j6 zz 3e/j6soyn = 1 23(3)k ejn/6 ejn/6j = 1 2(3)n1 sin n/616(e) Transforming with y0 = 1, y1 = 2(2z2 3z 2)Y(z) = 2z2 + z + 6 z(z 1)2 +zz 1soY(z) =zz 2+ z z + 5(z 1)2(2z + 1)(z 2)=12Page 2 Download & View Matemáticas Avanzadas para Ingeniería, 2da Edición - Glyn James.pdf as PDF for free Matemáticas Avanzadas para Ingenieros - Glyn James (2da Edición) Matemáticas Avanzadas para Ingenieros - Glyn James (2da Edición) Matemáticas Avanzadas Para ING de Glyn James.pdf Matemáticas avanzadas para Ingeniería Matemáticas avanzadas para Ingeniería Ingeniería de Control 2da Edicion w Bolt FUNCIONES MATEMATICAS PARA INGENIERIA Termodinamica Para Ingeniería metodos numericos para ingeniería Materiales Para Ingeniería Civil Calculo Diferencial Para Ingeniería 0% (0) 0% (0) 0% (0) 0% (0)Ver más opiniones de clientes/ Producto agregado correctamente al carro, Ir a Pagar. Todas las ramas de la ingeniería dependen de las matemáticas para su descripción y ha habido un continuo flujo de ideas y problemas de ingeniería que, a su vez, han estimulado y a veces iniciado ciertas ramas de las matemáticas. Así que es vital que los estudiantes de ingeniería reciban bases sólidas en matemáticas, con tratamientos relacionados con sus intereses y problemas. Ésta ha sido la motivación para la producción de este libro. Reconociendo la creciente importancia de la modelación matemática en la práctica de la ingeniería, cada capítulo contiene secciones específicas de aplicaciones a la ingeniería y estudios de casos. Los estudios de casos ayudan a reforzar las habilidades en la modelación matemática, esenciales para atacar sistemas cada vez más complejos y cuyo análisis y diseño constituyen la misión del ingeniero. Este sitio web utiliza cookies, tanto propias como de terceros, para mejorar su experiencia de navegación. 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