The Perties of CTFT [Cantd.] Technical Time Shifting

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The Perties of CTFT [Cantd.] Technical Time S BA: FIW)= FEARS = 5340. = 5'00+4 .. SEPIT-10) = Stept to) e'we'de Using method substribution, let t-to=to)

dt = dt :- 1994-40) = Steh) - jw(4+40) dts = (= jwto) [- 10 feb) . e olti } 「F(W) = (きいか、F(W) = F(D) (F(W)) = 1 を (F(D)) (F(W)) = 1 を (F(D)) (F(W)) = 1 を (F(D)) (F(W)) Enterence: It we time shift (deduy) a signal 3et is time domen, then in fegurery donuri, magnihide spectrim it fit ind fet-b) remeiris undrayed whereas the phase speeking at settle) = phone she to -wto + 4 PM.

§37 Cenjugahu and Symmetry IF I'm They pun then fin Fr. ? FL-01. ~ Mont: -> P(W) = FIFH) = Stip. = "WHAT take complex conjugation on both we siter. .. Fran = [fun = Jwtut] = [fin-jut] de [tuhnial] FTAN = Job Star SWITH : F'(-w) = 5 Fth. e at = F(fth)?

3

Side Reoudt: -> Let Fit se a read organi. I'm = fun : FSF(+) = FSFU) 1 = 1-w = Flos + if fun= 2001. | FT-19 = | FND | 1-(m) = 1/2 (m). It a signal fet is real than its is owen Juncher as magnifiele greekmi symmetric

site Flus = compress quantity (FW) = FR(W) + J' FR(W). | -0 w->-w F1-100 = FR1-100 + 1 F=1-100). Take complex conjugate, Film = [FRI-W) + j. FEI-W)] | Ftw = 16/10 - j Fz (ms) - 2 St fett = read, then Flux = Ftrux : FRIW = FRIW) | FILM = - FEIN of w is even touch to Fly is on the

Boposohin 4.1 If a frethe / sig nal, fen is real and overt than 12 Founier bandon, FIW, is also real and even. Broot: - P FIW) = Sty. Ent ヒーシェ = J(FID) = JWELE Uting method of substitution, t=-to t-> -00, t-> +00 てかけのりかつ 一ち : FIW = (fi-47 e (7d4) gen) = (sun) e dy

: F1-w) = / f(4) = NH dh |FI-W) = FIW) . - - - - - - - - - - -Frus is even fruche in 'w'. " Jun = real Jenem", Frus = FIND. - OL (Fim = PIM) => FW. is a real frame. Byworthis 4.2: >> Ef a frem Its formen frame from the grad odd frem its formen frame of full see process magning and odd frum is real of Julius and odd frum is Anot: Homework

Side RenWE: 3 Fin = fett + folt [aupter] by linewity property of CTRT FERM3 = Fifein3+Fifoin] Fry = Felly + Fells Felus = FRIUS +) IECUS & (W) = FRM Foly = 1 Fell

no mi time-demai St fit Fin Fin (Ex). S KIW, e dw 立子の = (法) / at Crans (=1) (=10) (10) Experient (==) [[iw Frw)]. eint dto - (2)

112 FC. 2 (Jus? F/W) other F (Jo)3. Fuy Light Fig (juy). Fruy +1 Asgnets zir) 1 [39net)] = 2 SCH FS of squet) = FS 2 Sth 3 copyon, of copyon,

: (Progrets = ju tosist It = 2x olw) of syn 25 deus = 立 [上い] + ドミハかい = 1 [2xow) + 2]

17 min3 = U(w) = Tram)+ 10 Conystution Theorem July -> Litz Figur3 = Figur * Ling = XIW. HILL 24 run (E) XIV) and Jun Fei) HW) run & hun = Fig xw. Hus But Method I Venis eigenhushur Khang of LPT operator:

of LPT operator:

of LPT operator:

Fundamental theorem of introduction into the Single State of the Single Single

Ons eignemen myself. 1 die 5 [XIWn). Wor]. Jun = # { lin _ to [x/wn). H/m) = my [wo] Jun = ix Stylin ew dw. = = x S x(w). H(w) e : Y(1) = F{yun} = F{xun*hun} = xny.

Method I) Unis wethood it substitute Jun = sun # Hely. yon = /219. ht-7/de .. Fs you? = you = Stoot - swfat Yem = S S nig Lit-get } = dt. = { | nire | = swedz } Shith) e diti}

LITI Filtening Riller Off. mulhphran Jerigh Ocaphe or 272 Allem twes Rilter

Key Grength at CTKT: Considerni in time-donai Legrenny-domerin is multiphroun in. what his XND. HIW). Broken O Prind the Brogners regime and cornerprodus mynus regime of ship ship Solm:-7 4m & P. P. Jun dyen + (te) vott = (te) Voth.

If the CTIETE un doncents,

For distribility = (te) For Voth)

The CTIETE un doncents,

Th (in) 1/2 (m) + (ke) 1/2 (m) = (ke) 1/3 (m).

He have
$$RC \rightarrow LTI$$
 from

well = hith * 2th Yells

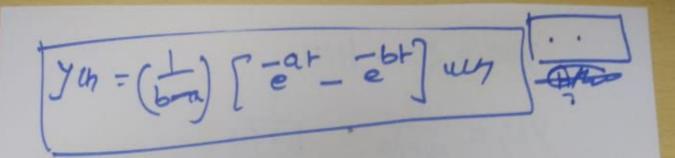
Velw = How. X Velw

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and correspondis inique seguine series RC highpens film Borano Fer an LTZ oronn shun nun = et. un hun=etun yun=?? We have, PSNING = FE Eat. wing= Mas = THIN Northern, Hun = Line. Aun * 20 YIM - XIM . HIM

yw = XIW. H(0) YW = atju · b+jw Ling Method at Rutial Frauer, Byon YIM = [[6.4] = (a+1) + (b) 1 = A (6+)(0) + Az (a+jw) 1 = A(6+10) + A2(0). YM = [=] 5-a



[*N. Q.1]

(20)