1.) Derivation => RTS for non-zero mean Denc= Axe-1 + may + VK-1. VK NNO, D.) YK= HXK. + MS + Sk. Skndo, R) P(xk,)ck+1/41:10) = P(xk+1/20k) P(xk/41:k) p Cax YICHI NN (MIC, MQ, PIC) P(xked) = P(xkel mk., mq, Pk) P (> (> (> ())) = N (> () () () ()) $P(x_{1}, x_{k+1} | Y_{1:k}) = N \left[\begin{pmatrix} x_{k} \\ x_{k+1} \end{pmatrix}, m, P_{1} \right]$ $m_1 = \begin{pmatrix} m_{12} \\ A m_{12} + m_{12} \end{pmatrix}$, $p_1 = \begin{pmatrix} p_{12} \\ A p_{12} \end{pmatrix}$ P (XK | XK+1, Y1:+) = P(XK | XK+1, Y1:K) N(XKI MZ) WE PleAKT (AKPKAKT + ar), where PZZ PK - GK (APAT+Q) GKT.

P(xk+1, xx / y), T) = P(xx | xx+1, y):7) PIXXXI 141:t) =- W () K (MZ, Pa) W (XKX), / M KX, PAS = N([xk+1] | M3, B). MICH GK (MEF) - AMIC-MOUS) GEPRHI GILPRAGETPZ MKS= MK+ GK(MK+1-4KMK-MQ) PR+ GR (PR+1-ARAT-BR) GT P(XX /Y /:T)= N(XX/ MIE, PE) Backward recursion equations. MXXI = AMX +MQ PE+1 = APAT+Q. CAR = PRAT [PINIT MK= MK+ GK[MK+1 - MK+1] PLS=PK+ AK[PK, - PK+J GK

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