

LIST OF SYMBOLS

C_k	= Spreading
C_t	= output conventional differential modulation calculation
D_t	= Output Symbol Detection
E_t	= Output of Unitary Matrix Decoder in specific time (2x2 MIMO)
$E_{t,m}$	= Output of Unitary Matrix Decoder specific time and antenna (2x2 MIMO)
$e_{t,m,k}$	= Output of Unitary Matrix Decoder in specific time, antenna, and subcarrier (2x2 MIMO)
f	=frequency carrier
F_t	= Output of Unitary Decoder in specific time (4x4 MIMO)
$F_{t,m}$	= Output of Unitary Matrix Decoder specific time and antenna (4x4 MIMO)
$f_{t,m,k}$	= Output of Unitary Matrix Decoder in specific time, antenna, and subcarrier (4x4 MIMO)
G_t	= Output DUSTM calculation
H_t	= Channel Coefficient Matrix
\Im	= Imaginary part of symbol
k	= subcarrier number
m	= antenna number
N_{fft}	= number of subcarriers
N_{par}	= number of parralel data entering MC-CDMA modulator
N_{sg}	= number of spreading gain
N_t	= Noise coefficient Matrix
R_t	= Received Signal Matrix
$r_{t,m}$	= Received Signal Matrix in specific time and antenna
S_t	= STFC Matrix
$S_{t,m}$	= Column Matrix of PSK mapper output
$s_{t,m,k}$	= Output of PSK mapper
$\hat{s}_{t,m,k}$	= received symbol (output maximum likelihood decoder)
t	= time
T_c	= coherent time
T_s	= symbol time
T_x	= transmitter
R_x	= receiver
\Re	= real part of symbol

X_t = Output of Differential STFC calculation

$X_{t,m}$ = Output of Differential STFC calculation in specific time and antenna

$Y_{t,m,k}$ = The weighting matrix of the real component STFC

$Z_{t,m,k}$ = The weighting matrix of the imaginer component STFC