

<u>Set variables:</u>		
$I = \sqrt{I}$	$J = I$	$MVA = MW$
<u>Design Data:</u>		
$t_f = 0.5 \text{ s}$	fault duration	
$Z_1 = (4.0 + j \cdot 10.0)$	positive sequence equivalent system impedance at 115kV side	
$Z_2 = Z_1$	negative sequence equivalent system impedance at 115kV side	
$Z_0 = (10.0 + j \cdot 40)$	zero sequence equivalent system impedance at 115kV side	
$S_f = 0.6$	current division factor	
$V_g = 115 \text{ kV}$	line to line voltage at worst fault location	
$\rho = 400 \text{ ohm} \cdot \text{m}$	soil resistivity	
$\rho_s = 2500 \text{ ohm} \cdot \text{m}$	crushed rock resistivity (wet)	
$h_s = 0.102 \text{ m}$	thickness of crushed rock surfacing	
$h = 0.5 \text{ m}$	depth of grid burial	
$A_{available} = 63 \text{ m} \cdot 84 \text{ m}$	$A_{available} = 5292 \text{ m}^2$	available grounding area 63m x 84m
$Z_{T1} = (0.034 + j \cdot 1.014)$	positive transformer impedance at 13kV	
$Z_{T2} = Z_{T1}$	$Z_{T0} = Z_{T1}$	neg and zero seq same as positive sequence
$S_T = 15 \text{ MVA}$	$Z_T = 0.09$	transformer data impedance 9% and S = 15MVA
$V_{T_{pri},B} = 115 \text{ kV}$	$V_{T_{sec},B} = 13 \text{ kV}$	step down transformer voltage pri-sec

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Wolfgang Schubert, Günter Lüttgens

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