



## HADI SAADAT POWER SYSTEM ANALYSIS EBOOK



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$P = P_0 e^{a(t-t_0)}$  where  $a$  is the average per unit growth rate,  $P$  is the demand in year  $t$ , and  $P_0$  is the given demand at year  $t_0$ . Assume the peak power demand in the United States in 1984 is 480 GW with an average growth rate of 3.4 percent. Using MATLAB, plot the predicated peak demand in GW from 1984 to 1999.

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From the above results, since  $P_1$  is positive and  $P_2$  is negative, source 1 generates 28 kW, and source 2 receives 24.57 kW, and the real power loss is 3.43 kW. Similarly, since  $Q_1$  is negative, source 1 receives 21 kvar and source 2 delivers 32.76 kvar. The reactive power loss in the line is 11.76 kvar. 2.9.



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### **Power System Analysis - Saadat**

Hadi Saadat is a Professor Emeritus of Electrical Engineering at the Milwaukee school of Engineering. Before retirement in 2004 he was a fulltime professor at MSOE since 1988, active in teaching and research in the general area of power system analysis, electrical machines, network theory, control systems simulations, and computer methods in ...