NON-AUTONOMOUS LINEAR GENERAL FOUR-TERMINALS SIMULTANEOUSLY SUPPLIED AT BOTH GATES, IN HARMONIC STEADY-STATE

BY

DORIN BELAUS

Abstract. The four-terminals supplied at both gates with equal voltages, having the same or oposite phase, allow to determinate easier the parameters of four-terminals.

The equivalent admittances at both gates can be calculated or experimentally determinated for general four-terminals like as for in restricted sense four-terminals using the "primitive" in a restricted sense four-terminals.

Two tests are proposed of general four-terminals, supplied at both gates: at idle for $\underline{Y}_3 = 0$, and at shortcircuit for $\underline{Y}_3 \to \infty$.

Keywords: General Four-Terminals; Simultaneously Supplying at the Two Gates; New Four-Terminal's Parameters; Experimental Determination.

ABOUT WI-FI NETWORK SECURITY

BY

LUMINIŢA SCRIPCARIU, PETRUŢ DUMA and SEBASTIAN CIORNEI

Abstract. The solution offered by IEEE in the 802.11i amendment for the Wi-Fi network security is presented. Robust Authentication mechanisms are discussed. Implementation examples are given in order to state the security level reached today.

Keywords: Network Security; 802.11; Authentication; Wi-Fi.

INDUCTIVE VOLTAGE DIVIDER COMPENSATED WITH ELECTRONIC AMPLIFIER

BY

ADRIAN CREŢU and CRISTIAN G. HABA

Abstract. It is proposed and studied a diagram for the automated error compensation of the inductive voltage divider (IVD). This procedure assures the decrease of the IVD no-load complex error of more than 10^6 times and a significant increase of its input impedance.

Keywords: Inductive Voltage; Error Compensation.