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Substituting (2) into (1), V 40 = (1 + j2) 2 + j4 V2 1 .1 Z Th = V2 = 44 1 + j6.4 V2 = 1.05 ? j6.71 ? 1 R L = Z Th = 6.792 ? To find VTh ,

consider the circuit in Fig. (b). 40 W Io V1 4 Io V2 + - + 120Ð0° V + --j20 W-j10 W Vth - (b)

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1.1 INTRODUCTION Electric circuit theory

and electromagnetic theory are the two fundamental theories upon which all branches of electrical engineering are built. Many branches of electrical engineering, such as power, electric machines, control, electronics, communications, and instrumentation, are based on electric circuit

theory.

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complete the sixth edition. Robust media offerings, renders this text to be the most comprehensive and student-friendly approach to linear circuit analysis out there. This book retains the "Design a Problem" feature which helps students develop their design skills by having the student develop the

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resistance, capacitance, and inductance, along with different kinds of circuitry. The title also discusses graphical methods, symbolic method of analysis, and elementary transmission-line analysis. The book will be of great use to students of electrical engineering. The text will also serve as a reference material for

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The 8th edition of this

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