

PROBLEMS

9-1 (a)

SOLUTION:-

$$Z(s) = \frac{(s+2)(s+3)}{(s+1)(s+4)}$$

$$V(t) = V_0 e^{st} \cos t \cdot u(t)$$

$$i(t) = ?$$

$$\mathcal{L}[V(t)] = V_0 \mathcal{L}[e^{st} \cos t]$$

$$V(s) = V_0 \frac{s+2}{(s+1)^2+1}$$

$$I(s) = \frac{V(s)}{Z(s)} = V_0 \left(\frac{(s+2)}{(s+1)^2+1} \right) \left(\frac{(s+1)(s+4)}{(s+2)(s+3)} \right)$$

$$= V_0 \left[\frac{(s+1)(s+4)}{(s+3)(s^2+4s+5)} \right]$$

$$\frac{(s+1)(s+4)}{(s+3)(s^2+4s+5)} = \frac{A}{s+3} + \frac{Bs+C}{s^2+4s+5}$$

$$(s+1)(s+4) = A(s^2+4s+5) + (Bs+C)(s+3) \rightarrow \text{Equate}$$

$$\text{Put } s = -3 \text{ in eq (1)}$$

$$(-2)(1) = A(9-12+5)$$

$$A = \frac{-2}{2} \Rightarrow \boxed{A = -1}$$

$$\text{Put } s=0 \text{ in eq (1)}$$

$$4 = A(5) + 3C \Rightarrow 3C = 4+5$$

$$3C = 9 \Rightarrow \boxed{C = 3}$$

$$\text{O} \Rightarrow s^2+5s+4 = As^2+4As+5A+Bs^2+3Bs+C(s+3)$$

$$s^2: 1 = A+B \Rightarrow \boxed{B = 2}$$

Thus,

$$I(s) = V_0 \left[\frac{-1}{s+3} + \frac{2s+3}{s^2+4s+5} \right]$$

$$I(s) = V_0 \left[\frac{-1}{s+3} + \frac{2s+4}{s^2+4s+5} - \frac{4}{s^2+4s+5} + \frac{3}{s^2+4s+5} \right]$$

$$= V_0 \left[\frac{-1}{s+3} + 2 \frac{(s+2)}{(s+2)^2+1} - \frac{4}{(s+2)^2+1} + \frac{3}{(s+2)^2+1} \right]$$



Network Analysis By Van Valkenburg Solution Manual

Chapter 9

David Kirk



Network Analysis By Van Valkenburg Solution Manual Chapter 9:

The Publishers' Trade List Annual ,1977 **Subject Guide to Books in Print** ,1983 Technical Books in Print
,1974 **British Books in Print** ,1978 Network Analysis M. E. Van Valkenburg,1964 **Network Analysis** Mac E.
VanValkenburg,1958 Network Analysis, 3/E(Paperback) Van Valkenburg, M.E. `,2009-07-07

This book delves into Network Analysis By Van Valkenburg Solution Manual Chapter 9. Network Analysis By Van Valkenburg Solution Manual Chapter 9 is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Network Analysis By Van Valkenburg Solution Manual Chapter 9, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Network Analysis By Van Valkenburg Solution Manual Chapter 9
 - Chapter 2: Essential Elements of Network Analysis By Van Valkenburg Solution Manual Chapter 9
 - Chapter 3: Network Analysis By Van Valkenburg Solution Manual Chapter 9 in Everyday Life
 - Chapter 4: Network Analysis By Van Valkenburg Solution Manual Chapter 9 in Specific Contexts
 - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Network Analysis By Van Valkenburg Solution Manual Chapter 9.

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