

with \bar{S}_1, \bar{S}_2

(*) In our homework 1.1, we saw a surprising phase space picture for a 1D system. To get \bar{S}_1 we used \bar{q}_1 , and \bar{S}_2 we used \bar{p}_1 . Then we must have \bar{S}_1, \bar{S}_2 and $\bar{S} = \bar{S}_1 + \bar{S}_2$ to be the form of the phase space.

$$\begin{aligned} \bar{S}_1 &= \bar{q}_1 \omega_1, & \bar{S}_2 &= \bar{p}_1 \omega_2, & \bar{S} &= \bar{q}_1 \omega_1 + \bar{p}_1 \omega_2 \\ \bar{q}_1 &= \frac{1}{\omega_1} \bar{S}_1, & \bar{p}_1 &= \frac{1}{\omega_2} \bar{S}_2, & \bar{S} &= \frac{1}{\omega_1} \bar{S}_1 + \frac{1}{\omega_2} \bar{S}_2 \end{aligned}$$

with $\bar{q}_1 = \bar{S}_1 / \omega_1$, $\bar{p}_1 = \bar{S}_2 / \omega_2$, $\bar{S} = \bar{S}_1 + \bar{S}_2$, and \bar{S}_1, \bar{S}_2 are independent coordinates.

We are looking for a coordinate system (\bar{q}_1, \bar{p}_1) and (\bar{S}_1, \bar{S}_2) .

$$\begin{aligned} \bar{q}_1 &= \bar{S}_1 / \omega_1, & \bar{p}_1 &= \bar{S}_2 / \omega_2 \\ \bar{S}_1 &= \omega_1 \bar{q}_1, & \bar{S}_2 &= \omega_2 \bar{p}_1 \\ \bar{S} &= \omega_1 \bar{q}_1 + \omega_2 \bar{p}_1 \end{aligned}$$

Microwave Engineering Solution Manual Second Edition

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High Frequency Circuit Design - Second Edition Ali Behagi, 2019-01-25 The second edition of the High Frequency Circuit Design is a unique book in the sense that it uses a free software LTspice to construct the schematic diagram and run the simulation to find the circuit response Then it uses a low cost software MATLAB to post process the simulated data as shown in Example 2 1 The book introduces not only a solid understanding of the high frequency Concepts and Components such as Network Parameters Transmission Lines Resonant Circuits Filter Designs Discrete and Distributed Impedance Matching Circuits Maximum Gain Amplifiers and Low Noise Amplifiers but more importantly it shows how to use design tools to analyze synthesize tune and optimize circuits in a manner used in industry

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Radio-Frequency and Microwave Communication Circuits Devendra K. Misra, 2004-07-30 The products that drive the wireless communication industry such as cell phones and pagers employ circuits that operate at radio and microwave frequencies Following on from a highly successful first edition the second edition provides readers with a detailed introduction to RF and microwave circuits Throughout examples from real world

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