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3.5 Electromagnetic Fields And Electromagnetic Interference

3.5.1 Introduction

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Theory Of Electromagnetic Fields

In These Lectures, We Shall Discuss The Theory Of Electromagnetic Elds, With An Emphasis On Aspects Relevant To RF Systems In Accelerators:

1. Maxwell's Equations

Maxwell's Equations And Their Physical Signi Cance

Electromagnetic Potentials Electromagnetic Waves And Their

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Natural Computation And Non-Turing Models Of Computation

An Expanded Definition Of Computation That Includes Alternative (especially Ana-log) Models As Well As The TM. Finally We Present An Alternative Model, Of Con-tinuous Computation, More Suited To Natural Computation. We Conclude

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! !e Electric Force On A Charge Is Parallel Or
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Electric Force Is $F=qE$ Points Toward Charge 2, As
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Wavelength λ And Frequency f : $v = \lambda f$ $\frac{v}{\omega} = \frac{\lambda}{2\pi}$ $\beta = \frac{2\pi}{\lambda}$ =

Substituting In For ω Using $\beta\omega = \pm kc$. (1.3) We Obtain 1

$V_{LC} = \frac{1}{\sqrt{LC}}$ (1.6) Note: If The Device Is Air Cored, Then The

Velocity May 10th, 2024 Electromagnetic Fields And 5G

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