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### The Classical Theory Of Fields

Field theory is a dynamical system containing degrees of freedom, denoted by  $\phi(x)$ , at each space point  $x$ . The coordinate  $\phi(x)$  can be a single real number (real scalar field) or consist  $n$ -components ( $n$ -component field). Our goal is to provide an equation satisfied by the trajectory  $\phi(t, x)$ .

### Introduction to Classical Field Theory

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The Classical Theory of Fields: Volume 2 (Course of Theoretical Physics Series) 4th Edition. by L D Landau (Author), E.M. Lifshitz (Author) 4.0 out of 5 stars 56 ratings. ISBN-13: 978-0750627689. ISBN-10: 0750627689.

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*Classical electromagnetism - Wikipedia*

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In a plane wave, the fields  $E$  and  $H$  are related to each other by  $E = H \times n$ . Since  $H = \text{curl } A$ , it is sufficient for a complete determination of the field in the wave zone to calculate only the vector potential. The field at large distances is inversely proportional to the first power of the distance  $R$  from the radiating system. The radiated electromagnetic waves carry off energy.

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