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This section presents a summary of electromagnetic field theory concepts presented in the previous volume. Electric Charge and Current Charge is the ultimate source of the

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electric field and has SI base units of coulomb (C).

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field theory, the field outside the sources in a finite region of the space (resp. space-time) determines completely the masses (resp. charges) that produce it, and consequently the field everywhere (resp. in all the

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causal past of the region).

For this reason, we call here for short pure field theories the local versions of these

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An electromagnetic field (also EM field) is a classical (i.e. non-quantum)

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field produced by moving electric charges. It is the field described by classical electrodynamics and is the classical counterpart to the quantized electromagnetic field tensor in quantum electrodynamics. The

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electromagnetic field
propagates at the speed of
light (in fact, this field
can be identified as light)
and . . .

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In accordance with this theory, electromagnetic energy is transported according to the classical theory of wave propagation, and the field energy is quantized only during the detection process [8]. When

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an optical field interacts with a photo-detector, a quantum of energy is absorbed in the form of a photon and the absorption of this photon gives rise to the release of an excited electron.

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Electromagnetic Fields

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As an example, quantum
electrodynamics contains a
Dirac field ψ representing
the electron field and a

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vector field \mathbf{A} μ representing the electromagnetic field (photon field). (Despite its name, the quantum electromagnetic "field" actually corresponds to the classical electromagnetic

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four-potential, rather than the classical electric and magnetic fields.)

~~Quantum field theory —~~

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Field theory had its origins in the 18th century in a

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mathematical formulation of Newtonian mechanics, but it was seen as deficient as it implied action at a distance. In 1852, Michael Faraday treated the magnetic field as a physical object, reasoning about lines of

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force. James Clerk Maxwell used Faraday's conceptualisation to help formulate his unification of electricity and magnetism in his electromagnetic theory. With Albert Einstein's special relativity and the

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This has led physicists to
consider electromagnetic
fields to be a physical
entity, making the field

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concept a supporting paradigm of the edifice of modern physics. "The fact that the electromagnetic field can possess momentum and energy makes it very real ... a particle makes a field, and a field acts on

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another particle, and the field has such familiar properties as energy content and momentum, just as particles can have."

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theory: Minds are non-physical products or correlates of information carried by global electromagnetic fields in brains. Examples: Only McFadden and John adopt this explicitly. Evaluation: This

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theory uses fields to explain the mind's unity, which avoids neuroscience's problems in this area.

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Theories of Mind~~

James Clerk Maxwell FRSE FRS

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(13 June 1831 – 5 November 1879) was a Scottish scientist in the field of mathematical physics. His most notable achievement was to formulate the classical theory of electromagnetic radiation, bringing together

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for the first time
electricity, magnetism, and
light as different
manifestations of the same
phenomenon. Maxwell's
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generic concepts results in a transparently structured electromagnetic field theory highly 14 Electromagnetic Field Theory A Review Physics

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The study of electromagnetic field theory is required for proper understanding of every device wherein electricity is used for operation. The proposed

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textbook on electromagnetic fields covers all the generic and unconventional topics including electrostatic boundary value problems involving two- and three-dimensional Laplacian fields and one- and two-

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