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In mathematics, and especially differential geometry and mathematical physics, gauge theory is the general study of connections on vector bundles, principal bundles, and fibre bundles. Gauge theory in mathematics should not be confused with the closely related concept of a gauge theory in physics , which is a field theory which admits gauge symmetry .

Gauge theory (mathematics) - Wikipedia

Differential geometry plays an increasingly important role in modern theoretical physics and applied mathematics. This textbook gives an introduction to geometrical topics useful in theoretical physics and applied mathematics, covering: manifolds, tensor fields, differential forms, connections, symplectic geometry, actions of Lie groups, bundles, spinors, and so on.

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Modern Geometry, Fall 2017 - Columbia University

Modern differential geometry in gauge theories. [Anastasios Mallios] -- Aimed at undergraduates, graduate students, mathematicians, and physicists, this work offers a differential geometry approach to such physical theories as gauge theory.

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