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Nota di contenuto	Classical Yang-mills theory -- Path integral quantization of gauge theories -- Background field methods -- Instantons and θ -Vacua -- Schwinger model (QED) ² -- Chiral anomaly in (QCD) ² -- Fujikawa's path integral method -- Chiral anomaly in the Schwinger-Symanzik formalism -- Anomalous ward identities à la Wess-Zumino -- Topological aspects of the Wess-Zumino effective action -- Topological baryon number and the Skyrme model -- The Atiyah-Singer index theorem (for the Euclidean Dirac operator) -- Chiral anomalies and differential geometry -- Effective gauge theory actions in (2n + 1) dimensions -- Chiral anomaly with gravitational background field -- Vacuum charge in 2n + 1 dimensions.