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symmetries together -- Deformations and quantization -- Stability theory and quantization -- Presymplectic manifolds and the quantization of relativistic particle systems -- Geometric quantisation for singular lagrangians -- Electron scattering on magnetic monopoles -- The metaplectic representation, weyl operators and spectral theory -- Supergravity: A unique self-interacting theory -- General relativity as a gauge theory -- On a purely affine formulation of general relativity -- A fibre bundle description of coupled gravitational and gauge fields -- Homogenous symplectic formulation of field dynamics and the poincaré-cartan form -- Spectral sequences and the inverse problem of the calculus of variations -- Geodesic fields in the calculus of variations of multiple integrals depending on derivatives of higher order -- Separability structures on riemannian manifolds.