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The curvature energy-momentum tensor in extended theories of gravity with curvature-matter couplings

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It is shown how in general terms one can construct a curvature energy-momentum tensor in extended theories of gravity with particular attention to gravitational theories with curvature-matter couplings for ideal fluids. In passing by, it will also be shown a unique way to define the matter Lagrangian for the case of ideal fluids.

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