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Note added in proof: Besides the articles cited in subsection 1.5, an idea of Stueckelberg [82] should be mentioned as a forerunner of U_4 -theory: "Torsion of space as a field acts differently from curvature of space (gravitation) only if the direction of transport (of momentum, F.W.H.) is different from the transported vector". Stueckelberg was aware that there should emerge a new spinspin interaction, but he didn't present a theory. Since the early sixties Ivanenko and his coworkers also repeatedly advocated the use of torsion in GR (see our paper [28] for references). For a newer article see Ivanenko [83]. The deviations of U_4 -theory from GR are worked out in [84], the question of the localization of material energy and spin is answered in [85]. Errata: In Part I the references [32,33] were misprinted. For the correction see [32a,33a].

516