Chen Inequalities for Submanifolds of Real Space Forms with a Semi-Symmetric Non-Metric Connection

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Abstract. In this paper we prove Chen inequalities for submanifolds of real space forms endowed with a semi-symmetric non-metric connection, i.e., relations between the mean curvature associated with a semi-symmetric non-metric connection, scalar and sectional curvatures, Ricci curvatures and the sectional curvature of the ambient space. The equality cases are considered.

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