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Chuu-Lian Terng* (cterng@math.uci.edu), Department of Mathematics, University of California at Irvine, Irvine, CA. *Soliton equations and Gauss-Codazzi equations.*

We explain a general method for constructing soliton equations from symmetric spaces, how Gauss-Codazzi equations of submanifolds arise as soliton equations, and the geometry of the moduli spaces of these classes of submanifolds. (Received February 20, 2009)