1014-35-114   **Junfang Li*** (`junfang_li@ou.edu`), OK 73072. *Stable minimal hypersurfaces.*
In the book of " Proceedings of the 1980 Beijing Symposium on Differential Geometry and Differential Equations",1980, do Carmo and Peng proved that stable minimal hypersurface in Euclidean space with finite total curvature must be a hyperplane. I will give a simple proof. The main ingredients are Simons' inequality, stability inequality and the fact that minimal hypersurfaces must have infinity volume. The proof doesnot rely on the estimates from the paper "Curvature estimates for minimal hypersurfaces" of Schoen,Simon and Yau, which plays an essential role in the proof of do Carmo and Peng. (Received September 01, 2005)

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