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Targoviste, Romania. *Topological Degree methods for nonlinear equations in Banach spaces*. Preliminary report.

We define here a type of coincidence degree for a pair of operators. Some existence and uniqueness results for semilinear equations in banach spaces are established using the homotopy property of the extended topological degree. Finally, some applications to elliptic equations are given. (Received July 25, 2005)