1017-47-80   **Jiu Ding*** (`Jiu.Ding@usm.edu`), Department of Mathematics, 118 College dr. #5045, Hattiesburg, MS 39406-0001, and **Aihui Zhou**, State Key Laboratory of Scientific Computing, Institute of Computational Mathematics and, Scientific/Engineering Computing, 100080 Beijing, Peoples Rep of China. *A Spectrum Theorem for Some Perturbed Linear Operators.*

Using a generalized Sherman-Morrison-Woodbury formula for linear operators, we establish a relation for the spectra of a closed linear operator on a Banach space and its perturbation of a special type. We also show some applications of the new results. (Received February 13, 2006)