1001-94-340   **Steven T. Dougherty** and **T. Aaron Gulliver*** (`agullive@ece.uvic.ca`), Dept. of Electrical and Computer Engineering, University of Victoria, P.O. Box 3055, STN CSC, Victoria, BC V8S 4W9, Canada. *Optimal Linear Codes over Z_4.*

We determine the minimum distances of optimal linear codes over Z_4 for small lengths. Bounds are derived, and examples of optimal codes are given. (Received August 31, 2004)