1005-55-46   **Donald M Davis*** (`dmd1@lehigh.edu`), Lehigh University, Department of Mathematics, 14 E. Packer Ave., Bethlehem, PA 18015. *The mathematical work of Martin Bendersky.*
We will survey the contributions to algebraic topology made by Martin Bendersky. We will focus on his most important contribution, the development of various spectral sequences for computing homotopy groups of spaces. Other topics which will be mentioned include elliptic genera and complex bordism of abelian groups. If time permits, his work on cohomology of configuration spaces and on KO-theory of toric manifolds will be discussed. (Received January 20, 2005)