1019-14-83   **Charles F Doran*** (`doran@math.washington.edu`), University of Washington, Department of Mathematics, Box 354350, Seattle, WA 98195-4350, and **John W Morgan** (`jm@math.columbia.edu`), Columbia University, Department of Mathematics, 2990 Broadway, Mailcode 4406, New York, NY 10027. *Algebraic Topology of Calabi-Yau Threefolds in Toric Varieties.*

We compute the integral homology (including torsion), the topological K-theory, and the Hodge structure on cohomology of Calabi-Yau threefold hypersurfaces and complete intersections in Gorenstein toric Fano varieties. The methods are purely topological. (Received August 07, 2006)