Algebraic and Topological K-Topology

E. Bruce Williams

I. Topological vector bundles, tangent bundles,
normal bundles, topological K-theory, Bott Periodicity, Atiyah-Hirse
bruch spectral sequence, Chern classes, Todd classes, baby topological Riemann-Roch Theorem

II. Algebraic K-theory of rings: K_0, K_1 , Quillen's definition of higher K-theory via the plus construction

III. Quick into to Algebraic Geometry

IV. Algebraic K-theory of varieties, Riemann-Roch theorem for complex varieties a la Baum-Fulton-MacPherson