

CHAPTER VI

Homology, cohomology and homotopy

6.1. Introduction.

6.2. Singular homology and cohomology.

6.3. Ext and Tor.

6.4. Characteristic classes.

6.5. Steenrod squares.

6.6. Étale cohomology.

6.7. Some comments on motivic cohomology.

6.8. Quillen homotopy.

6.8. Bott periodicity.

6.10. Conclusion.

Our mathematical journey has now attained lift-off and the whole Earth lies in perspective beneath us. But this is not the end of our journey, it is the beginning. The reader is invited to continue our exploration. Mathematically the whole universe lies before us.