

A pair of hands is shown from the bottom, cupping a small amount of dark soil. A young tree with a thin trunk and two rounded, leafy canopies grows out of the soil. The background is a soft, out-of-focus landscape with a light sky and a distant horizon. The overall tone is peaceful and hopeful, representing the theme of environmental science and stewardship.

**INTRODUCTION TO
EARTH SCIENCE**

Contents

1. Introduction to Earth Science 1
2. Earth in Space 24
3. Plate Tectonics 52
4. Earthquakes 82
5. Volcanoes and Mountains 116
6. Rocks and Minerals 150
7. Geologic Time 186
8. Weathering and Soils 214
9. Landslides and Slope Failure 244
10. Streams and Floods 262
11. Groundwater and Wetlands 292
12. Oceans and Coastlines 320
13. The Atmosphere 356
14. Weather Systems 386
15. Earth's Climate System 416