

16

Magnetism

In this chapter, you will find out:

- about permanent magnets and magnetic materials
- how to magnetise a magnetic material
- how to demagnetise a magnetic material
- how to explain magnetic forces in terms of magnetic fields
- how electromagnets are made and used.

Setting a course

When Christopher Columbus set sail in 1492, he was hoping to find a new route to the East Indies by sailing west. To plot his course, he used a compass. He believed that the needle of a compass always points due north, and so it was easy to sail due west. In fact, he was wrong. A compass needle points towards the magnetic pole, and this is some distance away from the North Pole. This meant that Columbus's course across the Atlantic Ocean took him further south than he had intended to go. This had a happy consequence.

Columbus had been sailing for several weeks without sighting land. His crew were getting restless and stores were running low. He was on the point of turning back when the lookout sighted land. They had reached one of the Caribbean islands of the Bahamas (Figure 16.1). It turns out that, if Columbus had realised that his compass pointed a few degrees away from north, he would have travelled further to the north. He would have turned back before he ever reached land.

Compasses were vital instruments in the expansion of European nations as they looked for new places to trade with and conquer in the 15th and 16th centuries. With a compass and a reliable chart,

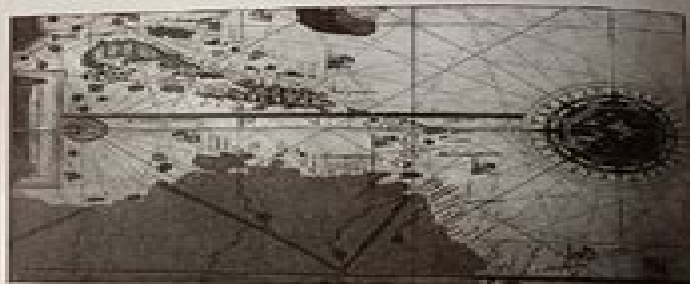


Figure 16.1 This map, published in 1506, shows the lands explored by Columbus. The Bahamas, where he first landed, are at the top, above the two large islands of Cuba and Hispaniola. On the right is a 'compass rose' used for navigation.

you could set a steady course for your target port and have a good chance of reaching it. A compass was made by rubbing an iron needle on a piece of naturally magnetised material called lodestone. If you carried your lodestone with you, you could always make a new compass. Historians have discovered that Europeans learned about magnets from the Chinese, who had been using compasses for over 1500 years before they reached Europe.

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