

Get Ready for Robot

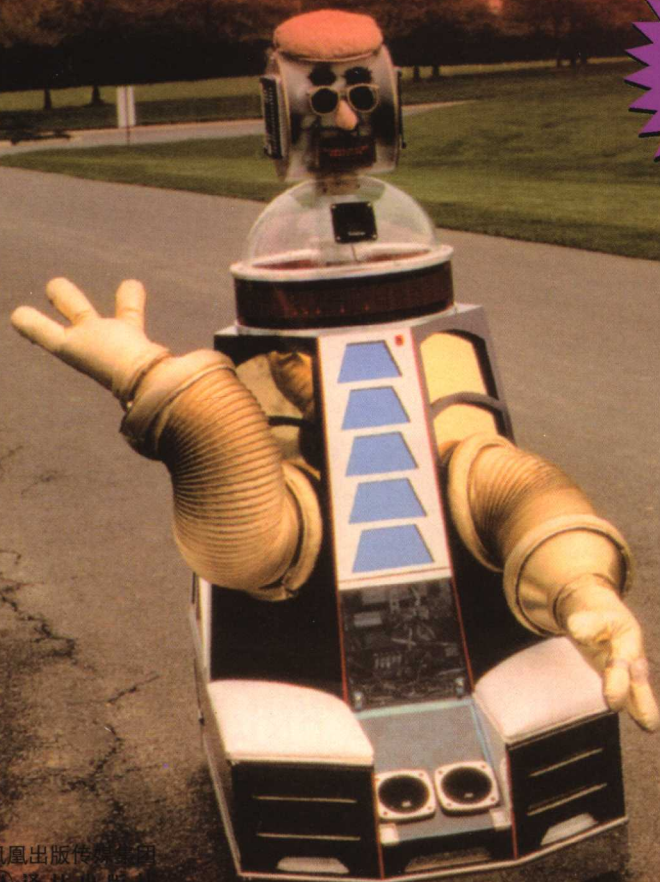
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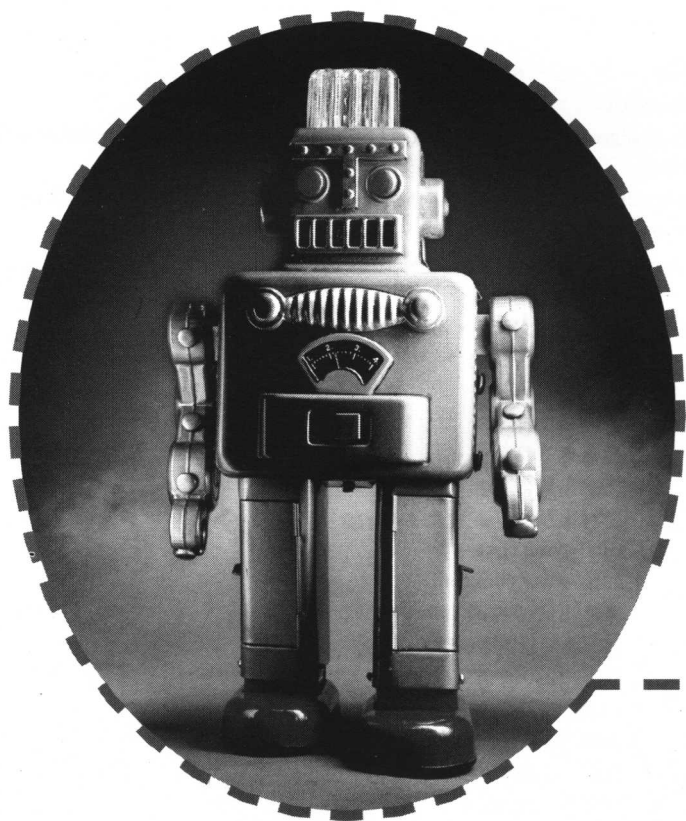
Get Ready for Robots

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GET READY FOR ROBOTS



By Howard Gutner

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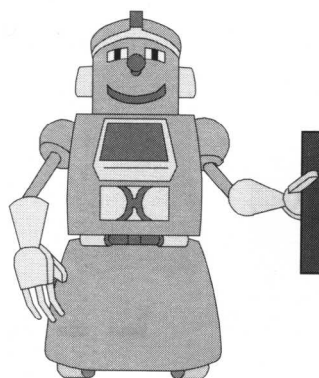
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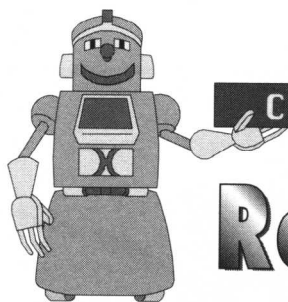
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To all the inventors of tomorrow

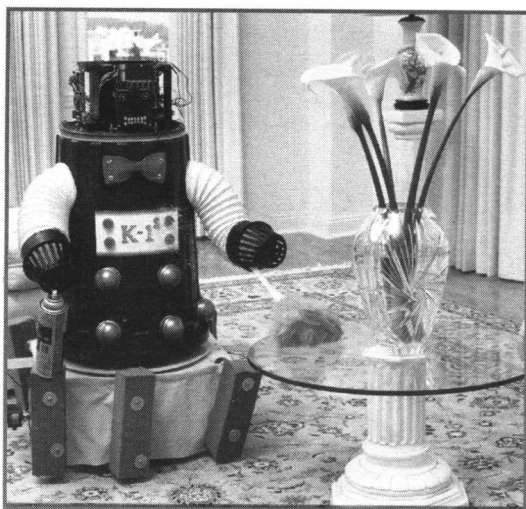


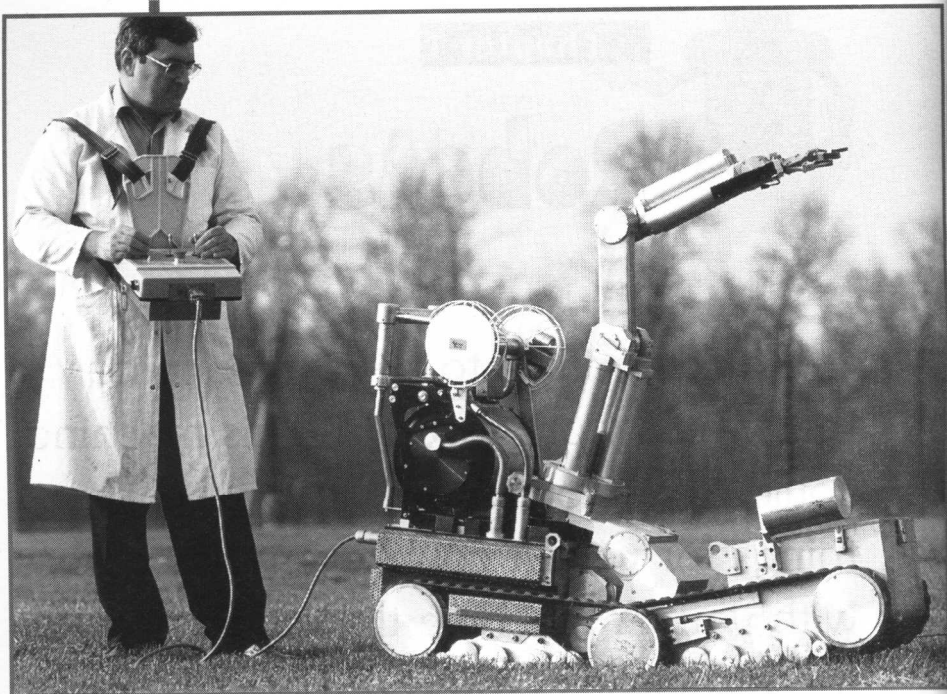
Chapter 1

Robots

Would you like to have a machine that would work for you? This machine could clean your room. It could carry things for you. It could even play games with you. A machine that could do these things is **called** a robot.

A housecleaning
robot ➡



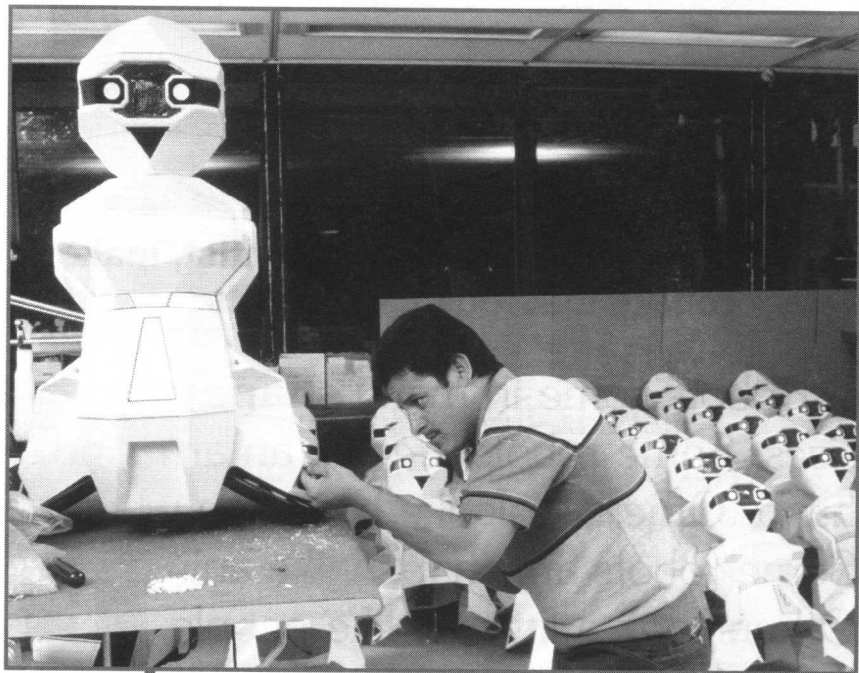


▲ Directing a robot with a remote control

A robot is a machine that can be told what to do. Then the robot can do a job **by itself**. It will do the job **over and over again** until a person tells it to stop.

A computer is **inside** almost all robots. The computer can be programmed. This means that people tell the computer what they want the robot to do. Then the computer **controls** every move the robot makes.

Building a robot ➡



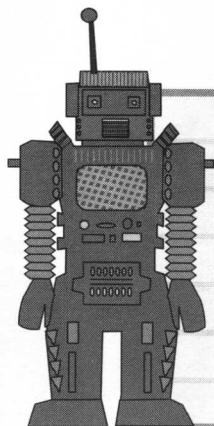
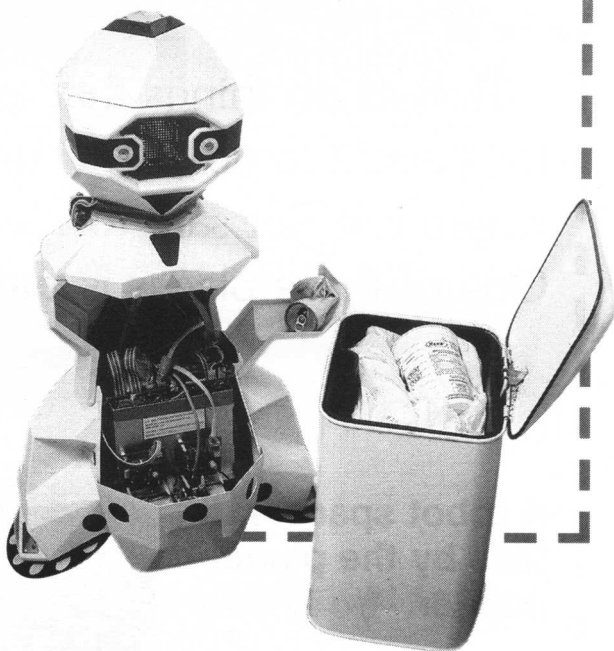


▲ Mark Tilden, a robot scientist, makes robots that look like insects.

Robots come in many **shapes** and sizes. Some robots are just an arm and a hand. Others look like boxes on wheels. Some robots are shaped like animals. Others look a little bit like people.

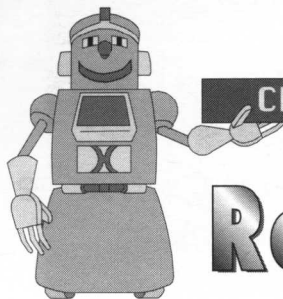
Robots do many different things. They mow lawns. They help to build cars. They carry big boxes. They go to the bottom of the sea. Robots have even been in **movies**.

A robot house cleaner ➡



Robot Fact

Some robots walk and talk.
Some even feel hot and cold. No
robot can think or feel happy or
sad as people do.



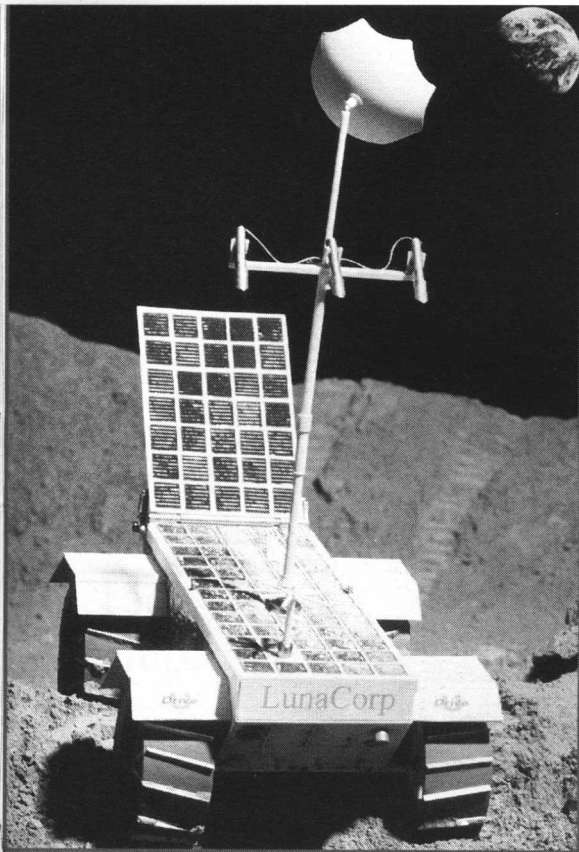
Chapter 2

Robots Explore

Robots do things that are too hard for people to do. They also go places where it is not safe for people to go. One of these places is **outer space**.

A robot spacecraft flies by the planet Jupiter. ➡





← A robot works on the moon.

It **takes a long time** to travel from Earth to planets like Mars or Venus. These **trips** are too long for people to make. Robots have no problem going into space. They do not need to sleep. They do not need food. They do not even need air to **breathe!**



▲ The robot *Sojourner* on Mars

In 1997 a spacecraft called *Pathfinder* landed on Mars. A little robot named *Sojourner* came out of the spacecraft. **Scientists** on Earth told *Sojourner* where to go. They told it to look at dirt and rocks. *Sojourner* also **took** lots of **pictures**. The pictures helped the scientists find out what Mars is like.

Robots also go to the bottom of the sea where it is too deep for people to go. The robots take pictures of plants and animals. They look at the soil.

Robots can also find things under the sea. A robot named Jason Junior helped find the *Titanic*. This was a big ship that **sank** many years ago. Jason took pictures inside and outside of the ship.

**Jason Junior about to enter
the *Titanic*** ➡



People cannot walk into **volcanoes**. The heat and poison gases would kill them. In 1994, a robot named Dante went into an **active** volcano.

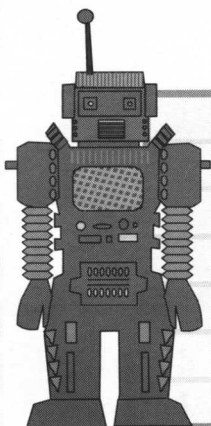
Dante walked down into the volcano crater. It studied the gases. It also made a map of the volcano.

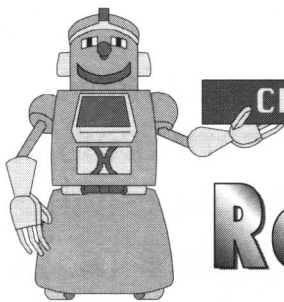
Dante II



Robot Fact

Robots collect information. Then people are needed to tell what the information means.



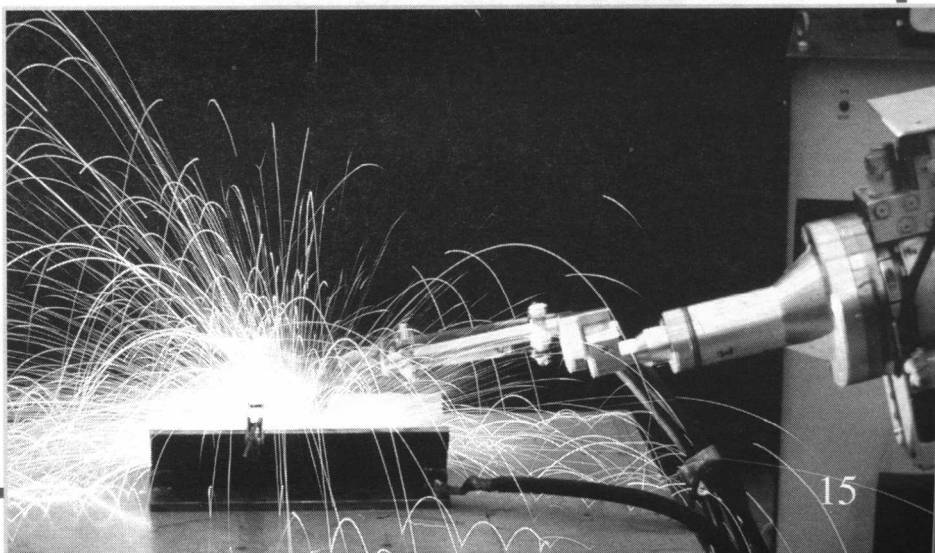


Chapter 3

Robots at Work

Each robot is made to do one kind of job. Some robots work in factories. They do jobs that people don't want to do. People might find these jobs tiring or **boring**. Robots never **get tired** or bored. They can also do some jobs better and faster than people.

➡ A factory robot



Many robots work in car factories. Some robots **run** carts that carry car parts. The carts go to other robots who make the cars. The car robots are really just big arms that put the car bodies together.

➡ **Robot arms make cars.**

