

# ROBOTICS OVERVIEW

## READING COMPREHENSION



### ROBOTICS

#### SHAPING TOMORROW'S WORLD

Read the text below and then answer the questions.

Robotics, the interdisciplinary field at the intersection of engineering, computer science, and mathematics, has revolutionized industries and transformed our daily lives. From manufacturing and healthcare to space exploration and entertainment, robots play a pivotal role in addressing needs, enhancing efficiency, and pushing the boundaries of what's possible.

At its core, robotics involves the design, construction, operation, and use of robots. But what exactly is a robot? Simply put, it takes in an environment, interprets available information, and takes action—continuously or under remote control. These tasks can range from simple actions like moving an object to complex operations like performing surgeries or exploring the depths of the ocean.

The history of robotics traces back to ancient times, with early automata and mechanical devices designed by inventors and engineers. However, it was only after the mid-20th century, with the advent of modern computers and technology, that the modern robotics era began. Today, we're witnessing the first real steps toward the "robots" in the sci-fi movies. The robots designed for tasks like welding and painting have already found their way into factories and warehouses, performing tasks that were once thought to be the domain of humans.

Today, robotic technologies are being applied in a wide range of applications and technologies. Industrial robots are used in manufacturing processes to assemble cars, electronics, and other products with precision and efficiency. These robots are equipped with sensors, actuators, and controllers, that allow them to perform repetitive tasks with speed and accuracy, improving production and reducing costs.

In the medical field, robots are transforming healthcare by assisting surgeons in delicate procedures, such as minimally invasive surgeries. Surgical robots like the da Vinci Surgical System enable surgeons to operate with enhanced precision, smaller incisions, and faster recovery times for patients. The development of prosthetic limbs and rehabilitation treatments and exoskeletons, increasing the mobility of individuals with disabilities or recovering from injuries.

Advances in artificial intelligence (AI) are opening new doors for robots. Robots are becoming more intelligent, able to learn from data and adapt to new situations. This is leading to the development of autonomous robots that can perform tasks without human intervention. These robots, equipped with AI, can navigate complex environments and make decisions on their own, opening up new possibilities for their use in various industries.

In the field of agriculture, robots are being used to plant, monitor, and harvest crops. These robots can work 24/7, reducing the need for manual labor and increasing efficiency. They can also be used to monitor soil health and water levels, providing valuable data to farmers. This is leading to the development of smart farming practices that can optimize crop yields and reduce environmental impact.

At the front of robotics, continues to evolve, new technologies are pushing the boundaries of what robots can do. Artificial intelligence (AI) and machine learning algorithms are enabling robots to learn and adapt to their environments, making them more versatile and capable of handling complex tasks. Collaborative robots (cobots) are designed to work alongside humans safely, opening up new possibilities for automation in various industries.

However, with these advancements come important considerations, including ethics and societal implications. As robots become more autonomous and intelligent, questions arise about their impact on employment, privacy, and human-machine interaction. It's crucial for society to address these challenges and ensure that the benefits of robotics are realized equitably and ethically. Additionally, the field of robotics is constantly evolving, and staying updated with the latest developments is crucial for anyone interested in the future of manufacturing, healthcare, and beyond. The space for developing robotics and enhancing our capabilities.



# How To Make A Better Robot Readworks Answers

**Xiaolong Qi**



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