

# 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. This can range from simple tasks 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 the factories of the 21st century.

Today, robotic systems are used 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. In agriculture, robots are used to plant seeds, monitor crop health, and harvest produce.

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 exoskeletons is revolutionizing the lives of individuals with disabilities or limb loss.

Advances in artificial intelligence (AI) are opening new doors for robots. Robots are becoming more intelligent, able to learn from their environment, solve complex problems, and adapt to new situations. This is leading to the development of "autonomous" robots that can operate in the real world without human intervention.

In the field of service robotics, we're seeing a growing emphasis on creating robots that can assist people with disabilities, the elderly, and those in need of care. These robots are designed to provide companionship, assistance with daily tasks, and even emotional support. The development of these robots is a testament to our growing understanding of the needs of our most vulnerable populations.

At the heart 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, or "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. Furthermore, the field of robotics is constantly evolving, and staying updated with the latest news and developments is essential for anyone interested in the future of manufacturing, healthcare, and beyond. The space is vast, and the possibilities are endless.



# How To Make A Robot Readworks Answers

**Mark Steyvers**



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