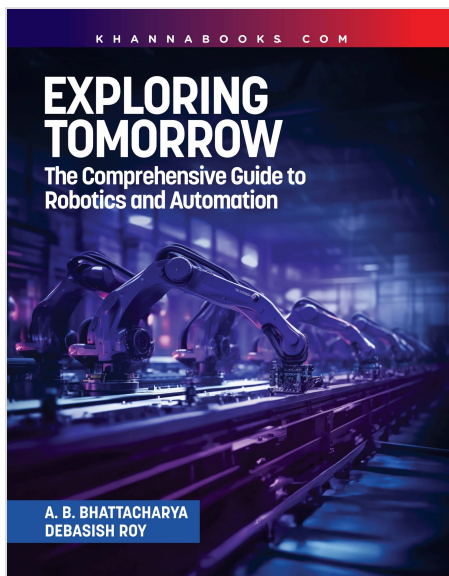




Exploring Tomorrow (The Comprehensive Guide to Robotics and Automation)

by A. B. Bhattacharya, Debasish Roy

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Description

Salient Features of the Book: 1. Covers industrial, service, domestic, healthcare, education, entertainment robots, and autonomous vehicles. 2. Focuses on human-robot collaboration, ethical challenges, privacy, and job displacement issues. 3. Details the technologies behind self-driving cars and autonomous drones. Covering AI, sensor fusion, computer vision, and control systems. 4. Explores surgical robots, rehabilitation robotics, telemedicine, and their contributions to healthcare. 5. Discusses agricultural robots for tasks like planting, weeding, harvesting, and livestock management. 6. Examines educational robots like LEGO Mind storms, Ozobot, and Sphero, and their integration into curricula. 7. Highlights the role of robotics in space missions, including rovers, unmanned spacecraft, and teleportation. 8. Explores robots used in search and rescue, hazard environments, mapping, and medical assistance. 9. Discusses robots inspired by biological systems, focusing on design, locomotion, and sensory systems. 10. Looks at the use of robots in theme parks, robotic performers, customer service, and logistics. 11. Discusses trends in automation, collaborative robotics, and their impact on the workforce. 12. Focuses on automation in manufacturing, robotic arms, robots, and cyber security. 13. Addresses technical challenges, research efforts, and the future of robotics. 14. Envisions future developments like swarm robotics and human-like androids. 15. Numerical problems, short questions, MCQs, project works, and others for all the chapters.

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