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7.6 Nanotechnology, the Developing World, and Distributive JusticeUnit III Ethical and Social Implications; 8 Environment; 8.1 Society, Technology, and the Environment; 8.2 Environmental Risks of Nanotechnology; 8.3 Nanotechnology Solutions to Environmental Problems; 8.4 Overall Assessments: Risk and Precaution; 9 Military; 9.1 The Military and Technology; 9.2 A Nano-Enabled Military; 9.3 A Nano-Enabled Defense System; 9.4 Ethical Concerns; 10 Privacy; 10.1 Historical and Legal Background; 10.2 Philosophical Foundations; 10.3 Radio Frequency Identity Chips; 10.4 Item-Level Tagging 10.5 Human Implants10.6 RFID-Chipped Identification; 10.7 Is RFID a Threat to Privacy?; 11 Medicine; 11.1 The Rise of Nanomedicine; 11.2 Diagnostics and Medical Records; 11.3 Treatment; 11.4 Moving Forward; 12 Human Enhancement; 12.1 What is Human Enhancement?; 12.2 Defining Human Enhancement; 12.3 The Therapy-Enhancement Distinction; 12.4 Human Enhancement Scenarios; 12.5 Untangling the Issues in Human Enhancement; 12.6 Restricting Human Enhancement Technologies?; 13 Conclusion; 13.1 Chapter Summaries; 13.2 Final Thoughts and Future Investigations; References; Index

Sommario/riassunto

Ongoing research in nanotechnology promises both innovations and risks, potentially and profoundly changing the world. This book helps to promote a balanced understanding of this important emerging technology, offering an informed and impartial look at the technology, its science, and its social impact and ethics.Nanotechnology is crucial for the next generation of industries, financial markets, research labs, and our everyday lives; this book provides an informed and balanced look at nanotechnology and its social impactOffers a comprehensive background discussion on