



Technology, Humans, and Society: Toward a Sustainable World

By Richard C. Dorf

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A number of factors, from soaring fuel prices to genetically modified agricultural products, have greatly refocused worldwide attention on the interrelationship between technology and society and the necessity for sustainable engineering and business practices. *Technology, Humans, and Society* focuses on building a model for business and engineering that will lead to a sustainable world. The challenge for engineering is to develop new technologies that enable economic growth and do not deplete irreplaceable resources and destroy ecological systems. No longer solely the domain of environmentalists and ecologists, "sustainable" or "green" business practices and engineering designs are becoming a central part of the planning of many of the world's most influential companies, such as Hewlett-Packard, Honeywell, Dow, and Agilent. Companies are overwhelmingly not only finding that sustainable business and engineering practices are good for environment, but also improve the image of the company and quite frequently the "bottom-line". Dorf's 1975 publication, *Technology and Society* (ISBN: 0878350470), sold over 70,000 copies. The completely new *Technology, Humans, and Society* is created to meet the swelling demand for unified practices of both business people and technologists in the creation of a "greener" sustainable world.

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Editorial Review

Review

"... My compliments for your work in developing *Technology, Humans, and Society*. I am excited to know that some of us on the technology side are willing to help bridge the gap between the demands of business/technology and the vital long term issues of social and environmental responsibility. Hopefully, your text will find its way into undergraduate engineering and business curricula... the next generation is our best hope for establishing a balanced and sustainable world." --**Ron Mascitelli, President of Technology Perspectives and author of the forthcoming book, *Building a Project-Driven Enterprise***

"Making all the information of this book available in one place is a significant service. One hopes that the issue of sustainability will be debated widely in the next few years. At the very least, *Technology, Humans, and Society* will give people the fundamental knowledge and the vocabulary to make that debate meaningful." --**Barrett Hazeltine, Lehigh University's Science, Technology & Society Newsletter**

From the Back Cover

The concept of a sustainable world rests squarely on a global framework for economic vitality, environmental quality, and social justice. The means of building, organizing, and operating within such a framework depends on sound decisions, responsible actions, appropriate technologies, and thoughtful governments. This book addresses the issues that illuminate a pathway to a sustainable world.

Technology, Humans, and Society is directed towards the scientist, business person, engineer, manager, governmental regulator, lawmaker, environmentalist or citizen concerned with the future of the world. Included in this book are additional contributions and readings from highly qualified authors with backgrounds in sustainable technologies, environmental studies, business and government.

Technology, Humans, and Society:

- enables business and engineering leaders to plan and implement a business practice that leads to an environmental social and economic balance that will result in profitable growth
- helps engineers and managers to build sustainable products and services that will be successful in the marketplace
- describes the critical matters of natural resources and the related technologies to process and transmit energy, materials, water, and wastes
- discusses sustainable agricultural systems that can adequately provide food while nurturing the earth
- describes the design of sustainable transportation systems
- considers the role of performance indicators for tracking quality of life and measures of progress and prosperity
- addresses sustainable architecture and buildings

About the Author

Richard C. Dorf is a Professor of Electrical and Computer Engineering and a Professor of Management at the University of California, Davis. Professor Dorf has extensive experience in education, industry and

government. He has served as an advisor to numerous firms, financial institutions and governmental agencies. He is also the author/editor of numerous books including; Modern Control Systems 9th edition, Prentice-Hall; Introduction to Electrical Circuits, 5th edition, Wiley; The Electrical Engineering Handbook, 2nd edition, CRC Press; The Engineering Handbook and The Technology Management Handbook, CRC Press.

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