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Nota di contenuto

Engineering As A Social Enterprise -- Copyright -- Preface -- Contents -- Engineering As A Social Enterprise -- Introduction -- 1-Systems Perspectives -- FROM DETERMINISTIC DYNAMOS TO SEAMLESS-WEB SYSTEMS -- The Shift Away From Internalism And Determinism -- Technology as Systems -- Dynamics of Technological Change -- Involving the Visible Hand -- Geographical Determinism -- Political Factors -- Social Construction Of Technology -- Technology-Science Relationship -- Conclusion -- CULTURAL AND SOCIOTECHNICAL VALUES -- Risk, Uncertainty, And Public Trust -- Human Progress -- 2-Organizational Perspectives -- BUSINESS, CONSUMERS, AND SOCIETY-AT-LARGE: NEW DEMANDS AND EXPECTATIONS -- Product Demands And Expectations In The Auto Industry -- Global Economic Interdependence and Competition -- The Need to Set World Standards -- Growing Societal Demands on the Product -- Market Incentives versus Command-and-Control Regulation: The Environmental Example -- Costs of Environmental Progress -- The Engineer in the Eye of the Hurricane -- The Experience of the 1970s as a Guide for the 1990s -- Demands And Expectations In Automotive Manufacturing -- The Importance of Systems Engineering -- Demands And Expectations In The Automotive Workplace -- Two Critical Tools Of Modern Engineering Practice -- Conclusion -- TECHNOLOGY AND GOVERNMENT -- Interactions Between Industry And Science -- Role Of Government As Regulator And Major Procurement Agency -- Regulatory Environment -- Major Government Programs -- Government as the Champion of Technology -- Influence Of Financial Institutions And Economic Factors -- Foreign Investment -- The Globalization of Technology -- Public Understanding Of Science And Technology -- Summary -- 3-Practitioners' Perspectives -- THE SOCIAL FUNCTION OF ENGINEERING: A CURRENT ASSESSMENT -- Social Impacts Of Engineering. Sociology And Education Of Engineers -- Social Responsibility -- Social Purpose -- Social Needs -- Lessons Learned -- What Is Past Is Prologue: The American Experience -- Engineering At A Crossroads -- Acknowledgments -- PONDERING THE UNPREDICTABILITY OF THE SOCIOTECHNICAL SYSTEM -- Model For Social Needs -- How Society Applies Technology -- The Picturephone -- Home Information -- Facsimile -- Cellular Telephony -- Lessons Learned -- Trends In The Sociotechnical System -- The Future -- Appendixes -- Appendix A-Tribute to J. Herbert Hollomon -- Appendix B-Engineering's Great Challenge-The 1960s -- Technological Expansion -- Planned Innovation -- Opportunities For Engineers -- Who Can Best Meet The Challenge? -- Role Of Engineering Not Recognized -- Responsibility Of The Individual -- National Academy Of Engineering -- Benefits To Science And Engineering -- Contributors.

Sommario/riassunto

Essays based on presentations given at the 1990 meeting of the National Academy of Engineering in a symposium dedicated to the memory of J. Herbert Holloman include perspectives on the engineering response to social needs as well as to social forces. No index. Annotation copyright Book News, Inc. Po