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Autore	Carabelli, Umberto
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SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL REFORM; 4.1 Introduction; 4.2 Sustainable development proposed framework; 4.3 Sustainable development tools, indicator, and formula 4.4 Sustainable development facilitators 4.5 Environmental reform; 4.6 Environmental reform proposed structure; 4.7 Mechanisms for environmental impact assessment; 4.8 Sustainable development road map; Questions; CHAPTER 5 SUSTAINABILITY OF MUNICIPAL SOLID WASTE MANAGEMENT; 5.1 Introduction; 5.2 Transfer stations; 5.3 Recycling of waste paper; 5.4 Recycling of plastic waste; 5.5 Recycling of bones; 5.6 Recycling of glass; 5.7 Foam glass; 5.8 Recycling of aluminum and tin cans; 5.9 Recycling of textiles; 5.10 Recycling of composite packaging materials; 5.11 Recycling of laminated plastics 5.12 Recycling of food waste 5.13 Rejects; Questions; CHAPTER 6 RECYCLING OF MUNICIPAL SOLID WASTE REJECTS; 6.1 Introduction; 6.2 Reject technologies; 6.3 Product development from rejects; 6.4 Construction materials and their properties; 6.5 Manhole; 6.6 Breakwater; 6.7 Other products; Questions; CHAPTER 7 SUSTAINABILITY OF AGRICULTURAL AND RURAL WASTE MANAGEMENT; 7.1 Introduction; 7.2 Main technologies for rural communities; 7.3 Animal fodder; 7.4 Briquetting; 7.5 Biogas; 7.6 Composting; 7.7 Other applications/technologies; 7.8 Integrated complex 7.9 Agricultural and rural waste management case studies Questions; CHAPTER 8 SUSTAINABILITY OF CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT; 8.1 Introduction; 8.2 Construction waste; 8.3 Construction waste management guidelines; 8.4 Demolition waste; 8.5 Demolition waste management guidelines; 8.6 Final remarks; 8.7 Construction waste case studies; Questions; CHAPTER 9 SUSTAINABILITY OF CLINICAL SOLID WASTE MANAGEMENT; 9.1 Introduction; 9.2 Methodology; 9.3 Clinical waste management; 9.4 Disinfection of clinical wastes; 9.5 Current experience of clinical wastes; 9.6 Electron beam technology 9.7 Electron beam for sterilization of clinical wastes

Sommario/riassunto

Sustainable Industrial Design and Waste Management was inspired by the need to have a text that enveloped awareness and solutions to the ongoing issues and concerns of waste generated from industry. The development of science and technology has increased human capacity to extract resources from nature and it is only recently that industries are being held accountable for the detrimental effects the waste they produce has on the environment. Increased governmental research, regulation and corporate accountability are digging up issues pertaining to pollution control and waste treatment a
