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Titolo	Design for Environment as a Tool for the Development of a Sustainable Supply Chain [[electronic resource] /] / by Maurizio Bevilacqua, Filippo Emanuele Ciarapica, Giancarlo Giacchetta
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Soggetti	Engineering design Engineering economics Engineering economy Production management Sustainable development Engineering Design Engineering Economics, Organization, Logistics, Marketing Operations Management Sustainable Development
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	From the Contents: Integration of Design for Environmental Concepts in Product Life Cycle -- Case Study: LCA as a Tool in "Design for Environmental": A Comparative Study Between Domestic Refrigerators -- Sustainable Product Assessment Tools -- Case Study: The Domestic Cooker Hood "F77" -- Designers' Utilization of DfE and Requirements.
Sommario/riassunto	Environmental Design is becoming an increasingly significant agenda for many manufacturing companies and yet there is no standard to their approaches, strategies or their levels of execution. Applying

Design for Environment (DfE) methodologies to develop a more sustainable supply chain has formed procedures and techniques which allow designers to integrate these methods with environmental supply chain management. Design for Environment as a Tool for the Development of a Sustainable Supply Chain aims to define relevant target specifications for a product throughout its life cycle; from conception and design to the end of its operating life. By considering this new approach to the supply chain, environmental responsiveness can work in tandem with sound business management. The usual focus on suppliers, manufacturers and customers is expanded in Design for Environment as a Tool for the Development of a Sustainable Supply Chain to include stakeholders such as government bodies and recycling companies. The influence of these additional groups is analyzed alongside concepts such as:

- Product life cycle development aimed at environmental impact minimization;
- Supplier selection and management based on environmental criteria; and
- Marketing and communication choices which increase the value of environmentally sensitive products.

By including several case studies alongside theoretical topics, Design for Environment as a Tool for the Development of a Sustainable Supply Chains acts as a foundation for professionals across the supply chain, from industrial designers to marketing and sales departments, who are involved in environmental issues.
