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| Edizione                | [1st ed.]  |
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| Disciplina              | 620.00286  |
| Soggetti                | Environmental engineering<br>Sustainable engineering<br>Engineering design   |
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| Livello bibliografico   | Monografia   |
| Nota di contenuto       | 1. Sustainable Development and the Role of Engineers -- 2. Sustainable Engineering: Concepts, Principles, and Frameworks -- 3. Tools for Sustainability Assessment -- 4. Fundamentals of Life Cycle Assessment -- 5. Introduction to Environmental Economics -- 6. Integrating Sustainability in Engineering Design -- 7. Sustainable Buildings and Sustainable Infrastructure Rating Systems -- 8. Policies and Instruments for Implementing Sustainable Development from a Life Cycle Perspective -- 9. Business and Sustainability -- 10. The Contribution of Engineers to Sustainability -- Appendix A: State of the World Environment: Key Messages of GEO-6 -- Appendix B: International Energy Agency: World Energy Outlook 2018. Executive Summary -- Appendix C: Energy and Climate Change -- Appendix D: Key Environmental Impact Categories -- Appendix E: Key Standards That Support Sustainable Development -- Index. |
| Sommario/riassunto      | "Introduction to Sustainability for Engineers aims to incorporate sustainability into curricula for undergraduate engineering students. The book starts with an introduction to the concept of sustainability, outlining core principles for sustainable development to guide engineering practice and decision making, including key tools aimed at   |

enabling, measuring and communicating sustainability. It also describes concepts as life cycle analysis, environmental economics, related institutional architecture and policy framework, business context of sustainability, and sustainable architecture. Appendices at the end of the book presents a summary of key concepts, strategies and tools introduced in the main text"--

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