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Nota di contenuto	1. Life-Cycle Cost Approach (LCCA): Rationale and Relevance -- 1.1 What Is LCCA and Why?- 1.2 LCCA and Green Economy -- 1.3 LCCA and Sustainable Services -- 2. Life-Cycle Cost Approach (LCCA): Framework and Concepts -- 2.1 The Framework -- 2.2 Cost Components -- 2.3 Discount Rates, Annualisation and Functional Unit -- 2.4 Components of Life-Cycle Model -- 2.5 Risk-Based Life Cycle Cost Analysis and Simulations -- 2.6 Methods and Tools of Environmental Impacts -- 3. LCCA Applications In Infrastructure and Other Projects: Some Case Studies -- 3.1 LCCA Application in the Real World -- 3.2 Case Studies (A): Construction; Power; Roads; etc -- 3.3 Case Studies (B): Natural Resource Based Projects Like Drinking Water and Sanitation (WASH); Crop Systems (Paddy); Agro-Processing (Bio-Ethanol, etc) -- 3.4 Case Studies (C): LCCA Application in the Developing Country Context -- 3.5 Good Practices of LCCA -- 3.6

## Constraints and Challenges in the Application of LCCA in the Developing Countries.

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### Sommario/riassunto

This book demonstrates the application of Life-cycle Cost Approach (LCCA) in the management of infrastructure and other investment projects in the context of developing countries. The main goal is to identify potential opportunities for the adoption LCCA in developing countries, with the help of case studies and best practices. The editors observe that developing countries are plagued with poor and fluctuating service delivery which affords low or no priority for environmental protection. They seek to instill at the policy-making level an understanding of why life-cycle cost assessment is central to achieving the goals of sustainable development as well as sustainable service delivery and to influence the behavior of sector stakeholders. The editors examine the evolution of LCCA from a project appraisal tool to a more comprehensive method of incorporating sustainable development aspects in a variety of sectors. By providing a compendium of concepts, tools and practical experiences, it seeks to broaden the application of LCCA, which is often limited to specific phases of the life-cycle with little or no weight given to environmental aspects. The aim of the book is to mainstream LCCA into governance processes at institutional levels from local to national, in order to increase the ability and willingness of decision makers - both users and those involved in service planning, budgeting and delivery - to reach better informed and more relevant choices among different types and levels of products and services.

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