

1. ライフサイクルエンジニアリングの新たな枠組み

(An Integrated Framework for Life Cycle Engineering)

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概要：

ライフサイクルエンジニアリング (LCE) と Industrial Ecology, Cleaner Production, Industrial Symbiosis, Circular Economy などの種々の概念との関係を整理する枠組みを示すとともに、完全な意味での持続性の概念の下で LCE の目指すべき方向性を議論する。

Abstract:

The presentation will introduce an integrated framework for Life Cycle Engineering (LCE) and argue for the need to reorientate LCE towards the environmental dimension of sustainability. Through an integrated top-down and bottom-up approach, the framework establishes a relationship between LCE and other relevant concepts like Industrial Ecology, Cleaner Production, Life Cycle Management, Industrial Symbiosis, and Circular Economy and positions them relative to the planetary boundaries and the concept of absolute environmental sustainability.