CLIMATE CHANGE AND INFRASTRUCTURE: LIFE CYCLE ASSESSMENT

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Reduce GHGs/fossil fuel use but impact water & soil quality in the agricultural stage.
Carbon Nanotube-Reinforced Concrete

Toxicity of CNT??
SELECTIVE LIFE CYCLE MANAGEMENT

- Simplifies data needs
- Uses available expertise
- Addresses issues perceived as most important.

BUT IT MISSES THE VALUE OF LCA IN IDENTIFYING POTENTIAL TRADE-OFFS!
LCA does not always (usually) declare a “winner”

The desire to come up with a single “score” can lead to a meaningless result...

**Entering Hillsville**

- Founded: 1802
- Elevation: 620’
- Population: 3,700
- Total: 6,122
INTEGRATED DECISION MAKING

- Technical Feasibility
- Risk Analysis
- Environmental Impacts
- Costs ($)
- Viability
- Societal Impacts

Sustainability
LIFE CYCLE ASSESSMENT HANDBOOK:
A Guide to Environmentally Sustainable Products

MARY ANN CURRAN, Editor

The first book of its kind, the LCA Handbook will become an invaluable resource for environmentally progressive manufacturers and suppliers, product and process designers, executives and managers, and government officials who want to learn about this essential component of environmental sustainability.

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