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SPECIALTY SECTION  
This article was submitted to  
Circular Economy,  
a section of the journal  
Frontiers in Sustainability

RECEIVED 28 June 2022  
ACCEPTED 23 August 2022  
PUBLISHED 09 September 2022

CITATION  
Skene KR (2022) How can economics  
contribute to environmental and social  
sustainability? The significance of  
systems theory and the embedded  
economy. *Front. Sustain.* 3:980583.  
doi: 10.3389/frsus.2022.980583

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# How can economics contribute to environmental and social sustainability? The significance of systems theory and the embedded economy

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Concerns relating to resource extraction, manufacturing, waste in our supply chains, along with increasing consumption and with their consequences for the planet, have, to a greater or lesser extent, begun to impact the ideological approach and the decision-making of governments, business and consumers alike on the material world we continue to create. Parallel concerns circle around social and environmental resilience, recovery and sustainability. This paper seeks to explore what a sustainable economy should look like in order to contribute to a resilient, diverse and thriving planet, while furthering resilient, diverse and thriving communities. It is argued that at the center of any sustainability theory, whether economic, environmental or social, lies the Earth system. The Earth system represents much more than the organisms sharing this planet with ourselves. Rather, it involves the fluxes of radiation, food energy, water, nutrients and heat. More essentially, it determines our niche space [the multidimensional space where tolerances and requirements interact to determine the habitable space within which an organism can practice its way of life]. Given that humans are some of the most vulnerable organisms on the planet in terms of the narrow range of conditions within which they can survive, the dynamic nature of the planet that determines this range of conditions must surely form the prime focus of our attentions. The Earth System, like all complex, far-from-equilibrium systems, is self-organizing, self-assembling, emergent, non-linear and governed by real-time feedback and sub-optimality at each level of its organization. The consequences of these properties for our economic activities and, indeed, for our own species, are discussed. It is further argued that we need an embedded economy. Fundamental to this exploration are the concept of *zusammenhang* (literally, hanging together), as developed by Humboldt, and the concept of the Earth as a super-organism, as developed by Hutton. Natural economics within the Earth system is explored and key properties of this economy are highlighted. The embedded economy functions in a way that facilitates natural and social recovery; resilience and functionality, while in resonance with the key characteristics of the Earth system. Artificial intelligence, utilizing ecological intelligence rather than human intelligence, and the internet of things, are identified as potentially significant tools in the establishment of an embedded economy.

# Economics Of Engineering And Social Systems

**CH Cherryholmes**



## **Economics Of Engineering And Social Systems:**

## Decoding **Economics Of Engineering And Social Systems**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Economics Of Engineering And Social Systems**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **Table of Contents Economics Of Engineering And Social Systems**

1. Understanding the eBook Economics Of Engineering And Social Systems
  - The Rise of Digital Reading Economics Of Engineering And Social Systems
  - Advantages of eBooks Over Traditional Books
2. Identifying Economics Of Engineering And Social Systems
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Economics Of Engineering And Social Systems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Economics Of Engineering And Social Systems
  - Personalized Recommendations

- Economics Of Engineering And Social Systems User Reviews and Ratings
- Economics Of Engineering And Social Systems and Bestseller Lists
- 5. Accessing Economics Of Engineering And Social Systems Free and Paid eBooks
  - Economics Of Engineering And Social Systems Public Domain eBooks
  - Economics Of Engineering And Social Systems eBook Subscription Services
  - Economics Of Engineering And Social Systems Budget-Friendly Options
- 6. Navigating Economics Of Engineering And Social Systems eBook Formats
  - ePub, PDF, MOBI, and More
  - Economics Of Engineering And Social Systems Compatibility with Devices
  - Economics Of Engineering And Social Systems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Economics Of Engineering And Social Systems
  - Highlighting and Note-Taking Economics Of Engineering And Social Systems
  - Interactive Elements Economics Of Engineering And Social Systems
- 8. Staying Engaged with Economics Of Engineering And Social Systems
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Economics Of Engineering And Social Systems
- 9. Balancing eBooks and Physical Books Economics Of Engineering And Social Systems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Economics Of Engineering And Social Systems
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Economics Of Engineering And Social Systems
  - Setting Reading Goals Economics Of Engineering And Social Systems
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Economics Of Engineering And Social Systems
  - Fact-Checking eBook Content of Economics Of Engineering And Social Systems

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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