



# Engineering for Sustainability: A Practical Guide for Sustainable Design

*By Gerald Jonker, Jan Harmsen*

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**Engineering for Sustainability: A Practical Guide for Sustainable Design** By Gerald Jonker, Jan Harmsen

This book provides engineers with the necessary information to design sustainable processes, products and value chains. It describes the current consensus on sustainable development for four context levels: Planet, Society, Business, and Engineers. It also presents all required design steps: from problem definition, via synthesis of potential solutions, analysis of solutions, improvements to the final solution evaluation. For each design step, methods and guidelines are provided in relation to the goal of obtaining a sustainable solution; a solution that meets both the needs of people and all specific context constraints with regard to the planet and prosperity.

- Provides information on the current consensus on sustainable development for four context levels: Planet, Society, Business and Engineers
- Offers guidelines for analyzing problems and identifying the best solution for each problem as applicable to a specific situation
- Provides clear design procedures for implementation of a particular solution
- Helps engineers to come up with profitable designs which meet environmental constraints
- Presents the information that engineers need to meet energy, water, food, health, and other basic human needs

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### **Editorial Review**

#### **About the Author**

Jan Harmsen is currently the Director of Harmsen Consultancy B.V., Leonardo da Vinci Chair Sustainable Chemical Technology at the University of Groningen, and Chairman of the Dutch Process Technology Association (NPT). From 1996 to 2010 he was the Principal Process Developer, Shell Technology Center Amsterdam. Recently he published the books:

Jan Harmsen, Industrial Process Scale-up: A practical innovation guide from idea to commercial implementation, Elsevier, (2013), ISBN 9780444627261.

Gerald Jonker and Jan Harmsen, Engineering for Sustainability. A practical guide for sustainable design, Elsevier, (2012), ISBN 9780444538468.

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