



# Creativity in Engineering: Novel Solutions to Complex Problems (Explorations in Creativity Research)

By David H Cropley

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## Creativity in Engineering: Novel Solutions to Complex Problems (Explorations in Creativity Research) By David H Cropley

Creativity is like an iceberg - the resulting new idea, or novel solution is only 10% of the effort. The other 90% is the complex interplay of thinking skills and strategies, personal and motivational properties that activate these skills and strategies, and the social and organizational factors of the environment that influence the creative process. *Creativity in Engineering* focuses on the Process, Person, Product, and Place to understand when and why creativity happens in the engineering environment and how it can be further encouraged.

### Special Features:

- Applies findings in creativity research to the engineering arena
- Defines engineering creativity and differentiates it from innovation
- Discusses personality and motivational factors that impact creativity
- Clarifies the role of creativity in the design process
- Details the impact of thinking skills and strategies in creativity
- Identifies the role the organization and environment plays in encouraging creativity

  

- Discusses the 4P's of Creativity: Person, Product, Process, and Place
- Provides tactics and tools that will help users foster creativity in engineering environments
- Identifies how creativity results in innovative new solutions to problems
- Applies creativity research and knowledge to the engineering space



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### **Editorial Review**

#### **About the Author**

Associate Professor David Cropley is an internationally recognised expert in creativity and innovation. He has published 6 books and many chapters and papers on topics including engineering creativity, creativity and crime, organisational creativity and innovation. David Cropley was a scientific consultant and featured creativity expert in the ABC (Australia) documentaries Redesign My Brain (2013), Life at 9 (2014), and Redesign My Brain, Series 2 (2015). He consults on innovation to companies in Europe and Australia, and is also a regular keynote speaker and creativity facilitator for a wide range of business organisations, government departments and schools.

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