

# Finance for Engineers: Evaluation and Funding of Capital Projects

By Frank Crundwell



**Finance for Engineers: Evaluation and Funding of Capital Projects** By Frank Crundwell



With flair and an originality of approach, Crundwell brings his considerable experience to bear on this crucial topic. Uniquely, this book discusses the technical and financial aspects of decision-making in engineering and demonstrates these through case studies. It's a hugely important matter as, of course, engineering solutions and financial decisions are intimately tied together. The best engineers combine the technical and financial cases in determining new solutions to opportunities, challenges and problems. To get your project approved, no matter the size of it, the financial case must be clear and compelling. This book provides a framework for engineers and scientists to undertake financial evaluations and assessments of engineering or production projects.



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#### **Editorial Review**

From the Back Cover

Engineering solutions and financial decisions are intimately tied together. The best engineers combine the technical and financial cases in determining new solutions to opportunities, challenges and problems. In order to get a project approved, no matter its size, the financials must be clear and compelling. To have an impact on the company's performance, a practising engineer must learn to argue the business case as part of the technical solution.

Finance for Engineers: Evaluation and Funding of Capital Projects provides a framework for engineers and scientists to undertake financial evaluations and assessments of engineering or production projects. The material covered enables the reader to understand how the economics of a technical project affects the finances of the company. The integration of the technical and financial decision-making is demonstrated through case studies and examples relevant to the practising engineer. The book equips engineers and scientists with the tools to contribute positively to the financial and strategic decisions within the organization.

#### About the Author

Dr Frank Crundwell BSc (Financial Maths), PhD (Chem. Eng.), has experience in academia (University of California, Berkeley; University of Cape Town; University of the Witwatersrand, Johannesburg), in technology development (BHP Billington) and corporate venture capital, and currently runs his own company (CM Solutions). He has been in involved in due diligence work, he has developed the business case for investment decisions, and he has patented and licensed inventions. He has also presented courses on Real Options Analysis and Finance for Professional Engineers for professionals.

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