



# Titanium Powder Metallurgy: Science, Technology and Applications

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**Titanium Powder Metallurgy: Science, Technology and Applications** From Butterworth-Heinemann

*Titanium Powder Metallurgy* contains the most comprehensive and authoritative information for, and understanding of, all key issues of titanium powder metallurgy (Ti PM). It summarizes the past, reviews the present and discusses the future of the science and technology of Ti PM while providing the world titanium community with a unique and comprehensive book covering all important aspects of titanium powder metallurgy, including powder production, powder processing, green shape formation, consolidation, property evaluation, current industrial applications and future developments. It documents the fundamental understanding and technological developments achieved since 1937 and demonstrates why powder metallurgy now offers a cost-effective approach to the near net or net shape fabrication of titanium, titanium alloys and titanium metal matrix composites for a wide variety of industrial applications.

- Provides a comprehensive and in-depth treatment of the science, technology and industrial practice of titanium powder metallurgy
- Each chapter is delivered by the most knowledgeable expert on the topic, half from industry and half from academia, including several pioneers in the field, representing our current knowledge base of Ti PM.
- Includes a critical review of the current key fundamental and technical issues of Ti PM.
- Fills a critical knowledge gap in powder metal science and engineering and in the manufacture of titanium metal and alloys

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## **Editorial Review**

### **About the Author**

Dr. Qian's research activities have been largely focused on physical metallurgy of light alloys (Ti, Mg and Al). Since 2008 he has been leading a research team comprised of researchers from four Australian universities to focus on the development of Low Cost Powder Metallurgy Titanium Alloys, supported by the Australian Research Council through the Centre of Excellence for Design in Light Metals. He initiated the first international conference on Powder Processing, Consolidation and Metallurgy of Titanium (4-7 Dec 2011, Brisbane, Australia), co-sponsored by Materials Australia, Titanium Industrial Development Association (TiDA) New Zealand, Japan Society of Powder and Powder Metallurgy (JSPM), The Mineral, Metals & Materials Society (TMS), and Chinese Society for Metals (CSM). As the lead organiser, he organised the TMS symposium of "Novel Synthesis and Consolidation of Powder Materials" at the 142nd TMS Annual Meeting & Exhibition (3-7 March 2013 San Antonio, USA). He is currently on the editorial/review boards of Metallurgical and Materials Transactions A, Powder Metallurgy, and International Journal of Powder Metallurgy (liaison committee). He is also a board member of the Asian Powder Metallurgy Association (APMA).

Dr. Froes has been involved in the Titanium field with an emphasis on Powder Metallurgy (P/M) for more than 40 years. He was employed by a primary Titanium producer-Crucible Steel Company-where he was leader of the Titanium group. He was the program manager on a multi-million dollar US Air Force (USAF) contract on Titanium P/M. He then spent time at the USAF Materials Lab where he was supervisor of the Light Metals group (which included Titanium). This was followed by 17 years at the University of Idaho where he was a Director and Department Head of the Materials Science and Engineering Department. He has over 800 publications, in excess of 60 patents, and has edited almost 30 books-the majority on various aspects of Titanium again with an emphasis on P/M. He gave the key-note presentation at the first TDA (ITA) Conference. In recent years he has co-sponsored four TMS Symposia on Cost Effective Titanium featuring numerous papers on P/M. He is a Fellow of ASM, is a member of the Russian Academy of Science, and was awarded the Service to Powder Metallurgy by the Metal Powder Association.

## **Users Review**

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#### **Thomas Llanos:**

Spent a free time to be fun activity to perform! A lot of people spent their spare time with their family, or their very own friends. Usually they undertaking activity like watching television, likely to beach, or picnic inside the park. They actually doing same thing every week. Do you feel it? Will you something different to fill your own personal free time/ holiday? Can be reading a book can be option to fill your no cost time/ holiday. The first thing you will ask may be what kinds of e-book that you should read. If you want to try look for book, may be the publication untitled Titanium Powder Metallurgy: Science, Technology and Applications can be excellent book to read. May be it can be best activity to you.

**Mary Partee:**

Playing with family in the park, coming to see the ocean world or hanging out with close friends is thing that usually you have done when you have spare time, in that case why you don't try issue that really opposite from that. Just one activity that make you not experience tired but still relaxing, trilling like on roller coaster you are ride on and with addition associated with. Even you love Titanium Powder Metallurgy: Science, Technology and Applications, you may enjoy both. It is great combination right, you still would like to miss it? What kind of hang type is it? Oh can happen its mind hangout folks. What? Still don't get it, oh come on its named reading friends.

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**Jeffrey Evans:**

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