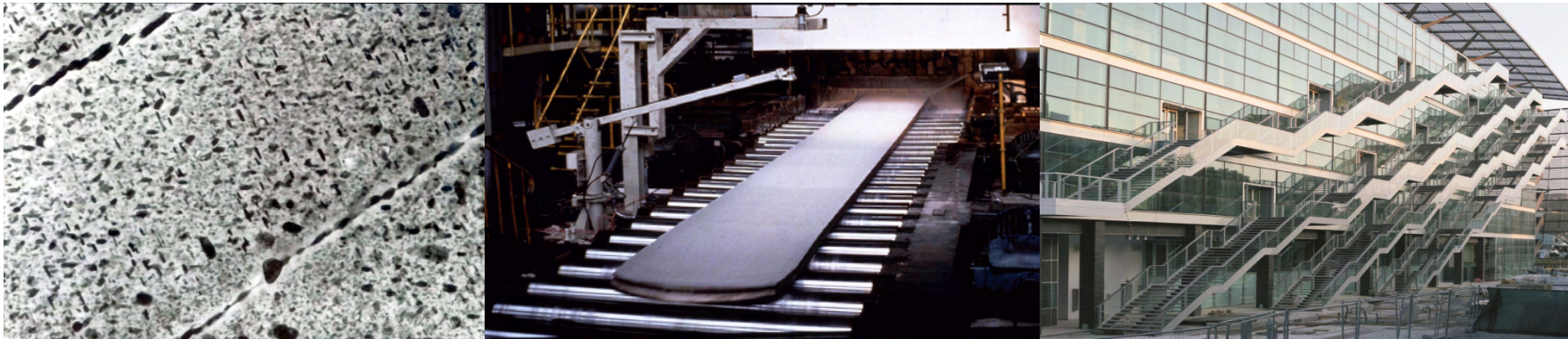


BONIJM

CENTRE FOR NON-FERROUS TECHNOLOGY, DEVELOPMENT & TRAINING

Master class Aluminium Technology

Course Director: Prof. Laurens Katgerman



Objective

- The aim of the master class is to provide a comprehensive overview of the state of the art in aluminium alloy technology
- The master class will focus on the basic metallurgy and mechanics controlling the evolution of microstructure and properties during industrial processing, application and design of aluminium products, trends in technology and markets

Course Format

The lecturers, who are the backbone of the course, have been carefully selected because of their expertise as well as their ability to communicate in a clear way. The course language is English, and complete lecture notes will be provided.

Active participation of the attendants is emphasised, and ample time is allowed for questions and discussion.

Lecturers

- Professor Laurens Katgerman, Delft University of Technology & K.A.T

Consultancy

- Rein van de Velde, vdVelde Consultancy

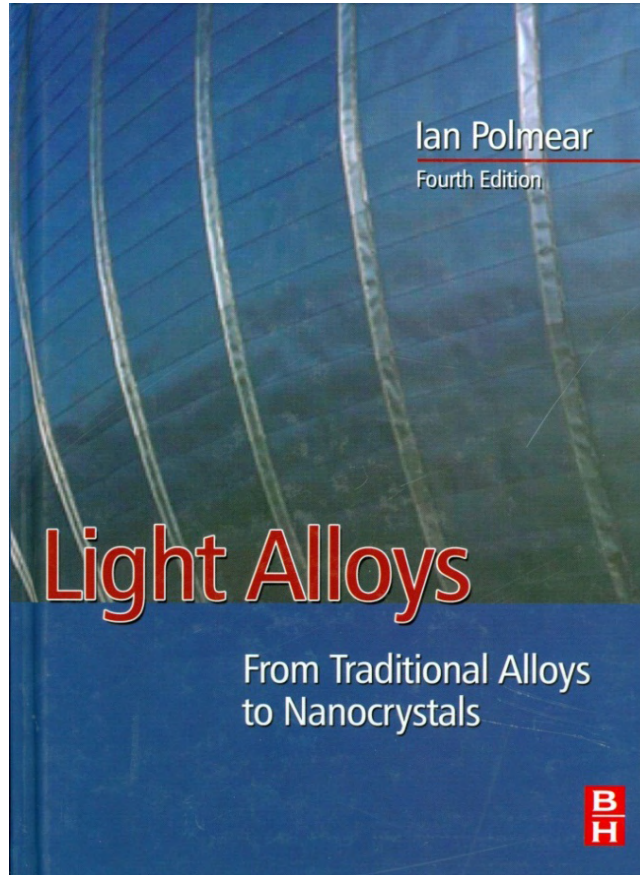
- Frans Bijlhouwer BSc MBA, Quality Consultants

- Professor Ian Richardson, Delft University of Technology

- Dr. Arjan Mol, Delft University of Technology

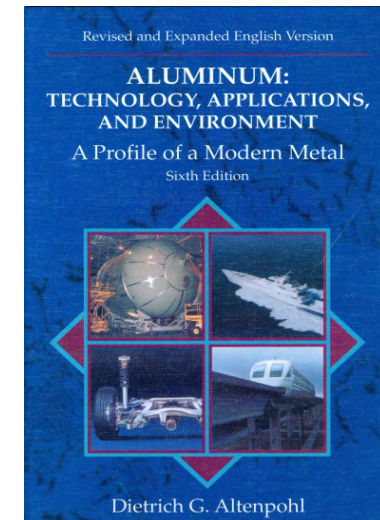
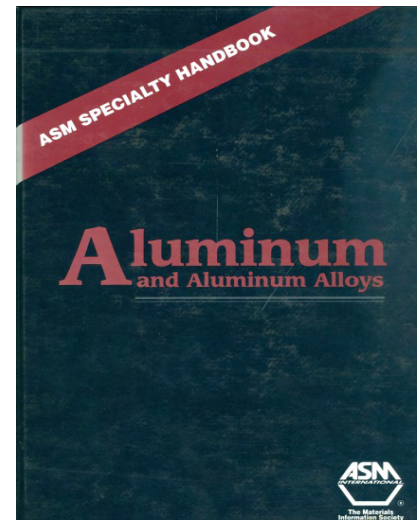
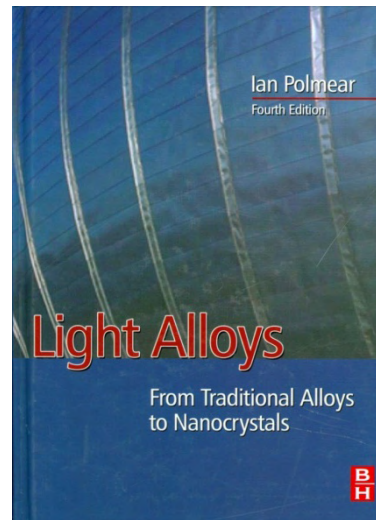
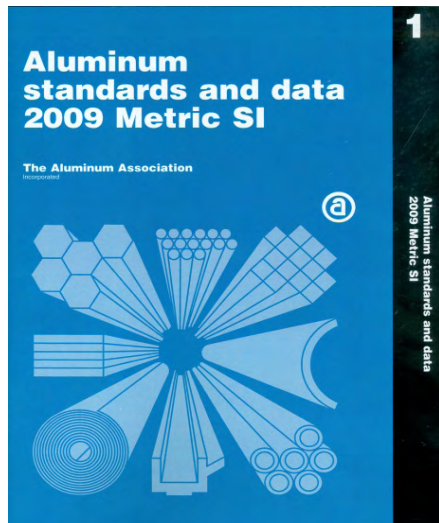
and experts on specialised topics from university and institutions

Main Topics



- Metallurgy, Properties and Microstructural Control
- Semi-product Processing
 - Casting Technology
 - Extrusion Technology
 - Rolling Technology
 - Joining & Welding
 - Recycling Technology
- Mechanical Design & Performance
- Corrosion & Surface Technology
- New Process & Product Developments
- Market Trends & Developments

Selected references



Selected references

- I.J. Polmaer, *Light Alloys*, 4th edition, Butterworth-Heinemann, Oxford UK (2007)
- D.G. Altenpohl, *Aluminium: Technology, Applications and Environment*, 6th edition, The Aluminium Association and TMS, USA (1999)
- J.E. Hatch Ed., *Aluminium: Properties and Physical Metallurgy*, ASM, Ohio (1984)
- *Aluminium Standards and Data 2009 Metric SI*, The Aluminium Association, Washington DC
- J.G. Kaufman, *Aluminum Alloys and Tempers*, ASM International, USA (2000)
- A.K. Vasudevan, R.D. Doherty Eds., *Aluminium Alloys- Contemporary Research and Applications*, Vol. 31- Treatise on Materials Science and Technology, Academic Press, London (1989)
- J.R. Davis, Ed, *Aluminium and Aluminium Alloys*, ASM Speciality Handbook, ASM International, USA (1994)
- G.E. Totten and D.S. MacKenzie Eds., *Handbook of Aluminium*, Marcel Dekker (2003)
 - *Volume 1: Physical Metallurgy and Processes*
 - *Volume 2: Alloy Production and Materials Manufacturing*