



# Molten Salts Chemistry and Technology

*Marcelle Gaune-Escard, Geir Martin Haarberg*

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Both high temperature molten salts and room temperature ionic liquids (collectively termed liquid salts) have unique properties, including good heat capacity, good electrical conductivity and, in some cases, chemical catalytic properties. They are critical for the efficient production and processing of many different materials, for example the electrolytic extraction and refining of aluminium and silicon, particularly important in the post fossil fuel era. Other industrial applications range from solvents and fuel cells to alloy heat treatments and pyroprocessing in nuclear fuel.

With a focus on sustainable processes for the production and processing of materials, this book contains over 60 chapters and is organized into seven areas:

- Aluminium Electrolysis
- New Processes for Electrowinning
- Modeling and Thermodynamics
- High Temperature Experimental Techniques
- Electrochemistry in Ionic Liquids
- Nuclear Energy
- Energy Technology

Intended to provide a solid understanding of the properties, experimental methods, theoretical methods and applications of these materials, *Molten Salts: Chemistry and Technology* is an unrivalled reference for chemists, engineers and materials scientists in academia, research and industry.

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