

Molten Salts Chemistry: From Lab to Applications – An Indispensable Guide for Scientists and Engineers



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Molten salts are ionic liquids that are typically composed of alkali or alkaline earth cations and halide or oxide anions. They are unique in that they are liquid at relatively low temperatures, typically below 1000°C. This makes them attractive for a variety of applications, including energy storage, solar energy, nuclear energy, and materials science.

Molten Salts Chemistry: From Lab to Applications is a comprehensive guide to the chemistry of molten salts. It covers all aspects of the subject, from basic principles to the latest applications. The book is written by a team of experts in the field, and it is an essential resource for anyone who works with molten salts.

Basic Principles of Molten Salts Chemistry

The first part of the book covers the basic principles of molten salts chemistry. This includes a discussion of the structure and properties of molten salts, as well as their thermodynamic and transport properties. The book also covers the electrochemistry of molten salts, including the principles of molten salt electrolysis and the applications of molten salts in electrochemical cells.

Electrochemistry of Molten Salts

The second part of the book covers the electrochemistry of molten salts. This includes a discussion of the principles of molten salt electrolysis, as well as the applications of molten salts in electrochemical cells. The book also covers the use of molten salts in fuel cells and batteries.

Applications of Molten Salts

The third part of the book covers the applications of molten salts. This includes a discussion of the use of molten salts in energy storage, solar energy, nuclear energy, and materials science. The book also covers the use of molten salts in the chemical industry and in the production of new materials.

Future Directions in Molten Salts Chemistry

The final part of the book covers future directions in molten salts chemistry. This includes a discussion of the challenges and opportunities facing the field, as well as the potential for new applications of molten salts. The book concludes with a look at the future of molten salts chemistry and its potential to impact a wide range of fields.

References

The book includes an extensive list of references, which provide more detailed information on the topics covered in the book. The references are organized by topic, making it easy to find the information you need.

Molten Salts Chemistry: From Lab to Applications is an indispensable guide for scientists and engineers who use molten salts in their work. This comprehensive book covers all aspects of molten salts chemistry, from basic principles to the latest applications. The book is written by a team of experts in the field, and it is an essential resource for anyone who works with molten salts.



Molten Salts Chemistry: From Lab to Applications

by Henri Groult

★★★★★ 5 out of 5

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Text-to-Speech : Enabled

Screen Reader : Supported
Enhanced typesetting: Enabled
Print length : 1192 pages

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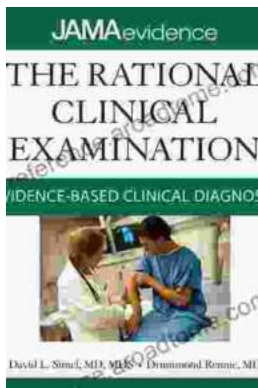
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