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Nota di contenuto	Molten Salts and Ionic Liquids: Never the Twain?; CONTENTS; Acknowledgements; Preface; Editorial; Contributors; 1 Ionic Liquids in the Temperature Range 150-1500 K: Patterns and Problems; 2 Conductivities of Ionic Liquid Mixtures with Organic Electrolyte Solutions; 3 How Hydrophilic Ionic Liquids Behave in Aqueous Solutions; 4 Mass Spectrometric Studies on Ionic Liquid Aggregates; 5 Study of Sm-Al Alloy Formation in the Molten LiCl-KCl Eutectic; 6 Alumina Solubility and Electrical Conductivity in Potassium Cryolites with Low Cryolite Ratio 7 Ionic Liquids as Solvents for the Variable Temperature Electrodeposition of Metals and Semiconductors: A Short Introduction8 Predicting the Thermodynamic Behaviour of Water + Ionic Liquids Systems Using COSMO-RS; 9 Metallic Inert Anodes for Aluminium Electrolysis; 10 The Behaviour of Phosphorus and Sulfur in Cryolite-Alumina Melts: Thermodynamic Considerations; 11 Ionic Liquid-Ionic Liquid Biphasic Systems; 12 Recent Developments in the Reprocessing

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Sommario/riassunto

For many years, the related fields of molten salts and ionic liquids have drifted apart, to their mutual detriment. Both molten salts and ionic liquids are liquid salts containing only ions - all that is different is the temperature! Both fields involve the study of Coulombic fluids for academic and industrial purposes; both employ the same principles; both require skilled practitioners; both speak the same language; all then that is truly different is their semantics, and how superficial is that? The editors of this book, recognising that there was so much knowledge, both empirical and theo