

1. Record Nr.	UNINA9910818610303321
Titolo	Modern chlor-alkali technology . Volume 8 Proceedings of the 2000 London International Chlorine Symposium; organised by SCI's Electrochemical Technology Group, held on 31st May-2nd June, 2009 [[electronic resource] /] / edited by John Moorhouse
Pubbl/distr/stampa	Chichester, : Society of Chemical Industry Malden, Mass., : Blackwell [distributor], 2001
ISBN	1-281-31280-0 9786611312800 0-470-99947-0 0-470-99946-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (352 p.)
Altri autori (Persone)	MoorhouseJ. S
Disciplina	661 661.0732 661/.0732
Soggetti	Chlorine industry Alkali industry and trade Electrochemistry, Industrial
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Modern Chlor-Alkali Technology Volume 8; Contents; Introduction; Acknowledgements; 1 The Chlor-Alkali Business; 2 Phase-out Issues for Mercury Cell Technology in the Chlor-Alkali Industry; 3 Euro Chlor Risk Assessment for the Marine Environment; 4 Chlorine Production with Oxygen-depolarised Cathodes on an Industrial Scale; 5 Deactivation of Thermally Formed RuO ₂ + TiO ₂ Coatings During Chlorine Evolution: Mechanisms and Reactivation Measures; 6 High Current Density Operation of Chlor-Alkali Electrolysers - the Standard for the New Millennium 7 Chlorine Processing Beyond the Millennium - the Use of Gas-separation Membranes 8 Electrode Management Optimisation System; 9 Gas-diffusion Electrodes for Chlorine-related (Production) Technologies; 10 Replacement of Mercury Chlor-Alkali Plants with New

Membrane Plants in Australia; 11 Commercialisation of Kvaerner Chemetics' Sulphate Removal System; 12 Process to Remove Sulphate, Iodide and Silica from Brine; 13 Advanced Diaphragm Cell Technology (ADCT)™; 14 Hypochlorite Recycling to Diaphragm Cells
15 Practical Operating Differences in Converting a Diaphragm Cell Chlor-Alkali Plant to a Membrane Electrolyser Plant
16 Know-how and Technology - Improving the Return on Investment for Conversions, Expansions and New Chlorine Plants; 17 New Electrolyser Design for High Current Density; 18 Chlor-Alkali Membrane Electrolyser; 19 Advanced Cell Technology with Flemion R Membranes and the AZEC R Bipolar Electrolyser; 20 A Dynamic Model of a Mercury Chlorine Cell; 21 Ethylene Dichloride ± Part of the Chlor-Alkali Plant?; 22 Back-pulse Filtration Using GORE-TEX R Membrane Filter Cloths
23 Cost Saving in Chlorine Plants by Benefiting from the Unique Properties of Titanium
24 Brine Purification by Ion Exchange with Water Elution; 25 Emission of Chlorine Dioxide in a Hypochlorite Production Unit in the Steady State and at Peak Load; 26 New Process Options for Hypochlorite Destruction; Index

Sommario/riassunto

The book addresses the latest technical developments in the chlorine industry with emphasis on operational improvements. The effects of economic, political, environmental and safety issues surrounding the industry are covered.
