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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)TM; 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 Flemiont 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.
