第一图书网, tushu007.com

<<工业水系统问题的定量预报QUAN>>

图书基本信息

书名:<<工业水系统问题的定量预报QUANTITATIVE FORECASTING OF PROBLEMS IN INDUSTRIAL WATER SYSTEMS>>

13位ISBN编号: 9789812381842

10位ISBN编号:9812381848

出版时间:2003-12

出版时间:Penguin

作者: Emerson, A. G. D.

页数:256

版权说明:本站所提供下载的PDF图书仅提供预览和简介,请支持正版图书。

更多资源请访问:http://www.tushu007.com

第一图书网, tushu007.com <<工业水系统问题的定量预报QUAN>>

内容概要

This textbook is a diagnostic tool. It enables chemical engineers, water technologists and others involved with the design and provision of an industrial water system, while it is still at the design stage, to start with the chemical analysis of a water supply and make a quantitative forecast of the likely problems (scale and corrosion). It is thus possible to make provision for an appropriate water treatment programme from the very outset. The inclusion of a large amount of tabulated data allows results to be read off directly without making complex calculations. This is particularly useful for technologists working on site (for example when "trouble-shooting"). The ability to make quantitative forecasts enables designers to meet accountants on level terms — by justifying the cost of including a water treatment programme, and by giving a quantitative assessment of the hazards likely to be encountered if the recommended programme is not installed. Methods of water treatment are not discussed in this textbook, since they can change from time to time; the physical chemistry used in quantitative forecasting does not.

第一图书网, tushu007.com

<<工业水系统问题的定量预报QUAN>>

书籍目录

ForewordSynopsisNomenclatureIntroduction1 Calcium Carbonate Fouling 1.1. The Ryznar Index 1.1.1. 1.1.2. Emergence of the Ryznar Index 1.1.3. Revised Evaluation of the Ryznar Origin of Ryznar's Work Index 1.1.4. Experimental Errors 1.2. New Data 1.2.1. Use in the Field 1.2.2. Margin of Error 1.3. The Langelier Index 1.3.1. Use in the Field 1.3.2. Margin of Error 1.4. Choice Between Langelier and Ryznar 1.5. The Special Case of Recirculating Systems 1.5.1. Closed Recirculating Systems Recirculating Systems2 Calcium Sulphate Fouling 2.1. Calcium Sulphate Saturation Index 2.2. Calculating the Weight of Calcium Sulphate 2.3. Use in the Field 2.4. The Special Case of Recirculating Systems3 Calcium Phosphate Fouling 3.1. Calcium Phosphate Saturation Index 3.2. Calculating the Weight of Calcium Phosphate 3.3. Use in the Field 3.4. The Special Case of Recirculating Systems4 Corrosion of Mild Steel 4.1. 4.1.2. The Special Case of the Recirculating Systems 4.2. The The Ryznar Index 4.1.1. Use in the Field Langelier Index 4.2.1. Use in the Field 4.2.2. The Special Case of the Recirculating Systems 4.3. Comparison Between Ryznar Index and Langelier Index 4.4. Buffer Capacity 4.4.1. Description of Buffer 4.4.2. Definition of Buffer Capacity 4.4.3. Water Analyses and Buffer Capacity Effect 4.4.4. **Evaluation of Buffer Capacity** 4.4.5. Buffer Capacity and Corrosion Rate 4.4.6. Use in the Field 4.4.7. The Special Case of the Recirculating Systems5 Corrosion of Copper 5.1. Cold Water Systems 5.1.1. The Lucey Index 5.1.2. An Alternative Approach 5.1.3. Data Required 5.1.4. Effect of Concentration 5.1.6. Time Scale 5.2. Hot Water Systems 5.1.5. Calculating the Index 5.2.1. Data on Water Chemistry 5.2.2. The Role of Residual Chlorine 5.2.3. Time ScaleReferencesTablesIndexSupplement (Reprint of Ref. 8)

第一图书网, tushu007.com

<<工业水系统问题的定量预报QUAN>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介,请支持正版图书。

更多资源请访问:http://www.tushu007.com