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Titolo	Adsorption by powders and porous solids : principles, methodology and applications / / F. Rouquerol [and four others]
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ISBN	0-08-097036-2
Edizione	[Second edition.]
Descrizione fisica	1 online resource (xix, 626 pages) : illustrations (some color)
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Disciplina	541.335
Soggetti	Adsorption Powders Porous materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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Nota di contenuto	Front Cover; Adsorption by Powders and Porous Solids: Principles, Methodology and Applications; Copyright; Contents; Preface to the First Edition; Preface to the Second Edition; List of Main Symbols; Superscripts; Subscripts; Use of operator ; Reference; Chapter 1: Introduction; 1.1. The Importance of Adsorption; 1.2. Historical Aspects; 1.3. General Definitions and Terminology; 1.4. Physisorption and Chemisorption; 1.5. Types of Adsorption Isotherms; 1.5.1. Classification of Gas Physisorption Isotherms; 1.5.2. Chemisorption of Gases; 1.5.3. Adsorption from Solution 1.6. Energetics of Physisorption and Molecular Modelling1.7. Diffusion of Adsorbate; References; Chapter 2: Thermodynamics of Adsorption at the Gas/Solid Interface; 2.1. Introduction; 2.2. Quantitative Expression of Adsorption of a Single gas; 2.2.1. Adsorption up to 1bar; 2.2.2. Adsorption Above 1bar and Much Higher; 2.3. Thermodynamic Potentials of Adsorption; 2.4. Thermodynamic Quantities Related to the Adsorbed States in the Gibbs Representation; 2.4.1. Definitions of the Molar Surface Excess Quantities; 2.4.2. Definitions of the Differential Surface Excess Quantities 2.5. Thermodynamic Quantities Related to the Adsorption Process2.5.1. Definitions of the Differential Quantities of Adsorption; 2.5.2. Definitions of the Integral Molar Quantities of Adsorption; 2.5.3. Advantages and Limitations of Differential and Integral Molar Quantities

of Adsorption; 2.5.4. Evaluation of Integral Molar Quantities of Adsorption; 2.5.4.1. Integral Molar Energy of Adsorption; 2.5.4.2. Integral Molar Entropy of Adsorption; 2.6. Indirect Derivation of the Quantities of Adsorption from of a Series of Experimental Physisorption Isotherms: The Is ...
2.6.1. Differential Quantities of Adsorption2.6.2. Integral Molar Quantities of Adsorption; 2.7. Derivation of the Adsorption Quantities from Calorimetric Data; 2.7.1. Discontinuous Procedure; 2.7.2. Continuous Procedure; 2.8. Other Methods for the Determination of Differential Enthalpies of Adsorption; 2.8.1. Immersion Calorimetry; 2.8.2. The Chromatographic Method; 2.9. State Equations for High Pressure: Single Gases and Mixtures; 2.9.1. Case of Pure Gases; 2.9.1.1. The van der Waals Equation (1890); 2.9.1.2. The Redlich-Kwong-Soave Equation; 2.9.1.3. The Gasem-Peng-Robinson Equation (2001)
2.9.2. Case of Gas MixturesReferences; Chapter 3: Methodology of Gas Adsorption; 3.1. Introduction; 3.2. Determination of the Surface Excess Amount (and Amount Adsorbed); 3.2.1. Gas Adsorption Manometry (Measurement of Pressure Only); 3.2.1.1. Up to Atmospheric Pressure; 3.2.1.1.1. Gas Adsorption Volumetry; 3.2.1.1.2. Simple Gas Adsorption Manometry; 3.2.1.1.3. Gas Adsorption Manometry with Intermediate Gas Storage and Measurement; 3.2.1.1.4. Differential Gas Adsorption Manometry; 3.2.1.2. Above Atmospheric Pressure
3.2.1.3. Setting the Parameters for an Automated Experiment of Gas Adsorption Manometry

Sommario/riassunto

The declared objective of this book is to provide an introductory review of the various theoretical and practical aspects of adsorption by powders and porous solids with particular reference to materials of technological importance. The primary aim is to meet the needs of students and non-specialists who are new to surface science or who wish to use the advanced techniques now available for the determination of surface area, pore size and surface characterization. In addition, a critical account is given of recent work on the adsorptive properties of activated carbons, oxides, clays and zeolit

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Titolo	Pediatric heart disease [[electronic resource]] : a practical guide / / edited by Piers E.F. Daubeney ...[et. al.]
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ISBN	1-283-59702-0 9786613909473 1-4443-6098-1 1-4443-6095-7 1-4443-6096-5
Descrizione fisica	1 online resource (347 p.)
Altri autori (Persone)	DaubeneyPiers E. F
Disciplina	618.9212 618.9212043
Soggetti	Congenital heart disease in children Pediatric cardiology
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Pediatric Heart Disease; Contents; Contributors List; Preface; Section I: General cardiology; 1: Epidemiology and genetics; 2: Basic cardiac physiology; 3: Cardiac morphology and nomenclature; Section II: Clinical evaluation and investigation; 4: History and clinical examination; 5: Basic non-invasive investigations; 6: Echocardiography and Doppler; 7: Diagnostic cardiac catheterization and angiography; 8: Advanced cardiac imaging; Section III: Specific congenital heart lesions; Acyanotic lesions; 9: Left-to-right shunts; 10: Right-sided malformations 11: Abnormalities of left ventricular inflow and outflow12: Aortic malformations, rings, and slings; 13: Coronary artery lesions; Cyanotic lesions; 14: Transposition and transposition complexes; 15: Abnormalities of right ventricular outflow; 16: Common mixing situations; Other lesions; 17: Heterotaxy, scimitar, and arteriovenous malformations; Section IV: Diseases of the peri-, endo- and myocardium; 18: Pericardial disease and infectious endocarditis; 19: Cardiomyopathies and acute myocarditis; 20: Cardiac tumors; Section

V: Pulmonary hypertension

21: Primary pulmonary arterial hypertension in children22: Pulmonary arterial hypertension associated with congenital heart disease (including Eisenmenger syndrome); Section VI: Rhythm disorders; 23: Bradyarrhythmias; 24: Tachyarrhythmias; Section VII: Systemic disease with cardiovascular involvement; 25: Rheumatic fever; 26: Marfan syndrome and connective tissue disorders; 27: Kawasaki disease and Takayasu arteritis; 28: Hyperlipidemia; 29: Systemic hypertension; Section VIII: Congenital heart disease at the extremes of life; 30: Fetal cardiology; 31: Adult congenital heart disease
Section IX: Management strategies32: Principles of medical management; 33: Catheter intervention; 34: Principles of surgical management; 35: Heart, lung, and heart-lung transplantation; Section X: Common clinical problems in the office; 36: Murmurs in asymptomatic patients; 37: Syncope and presyncope; 38: Chest pain; 39: Palpitations; 40: Stridor; 41: Cyanosis and cyanotic spells; 42: Activity restriction; Appendices; Appendix A: Resuscitation algorithms; Appendix B: Glossary of terms commonly used in pediatric cardiac disease; Appendix C: Pediatric cardiac drugs and dosages
Appendix D: Endocarditis prophylaxisAppendix E: Anticoagulation guidelines; Index

Sommario/riassunto

A companion book to Adult Congenital Heart Disease that will concentrate on the practical management of children with heart conditions. This is aimed at general paediatricians and physicians who are responsible for ongoing management, rather than specialists concerned with acute or rare presentations. The book will be illustrated with relevant radiology scans, demonstrating which investigations are appropriate, and will provide the relevant information for the generalist on patient management for different lesions. A section on emergency management is also included. Authorship is international