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Collana	Contemporary mathematics, ; 565 , 0271-4132
Classificazione	05E1016Exx17Bxx20Cxx20Gxx81Rxx
Disciplina	512.2
Soggetti	Combinatorial group theory Representations of groups
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.
Nota di contenuto	Preface -- Program -- W-algebras at the critical level -- 1. Introduction -- 2. Associated graded vertex Poisson algebras -- 3. BRST cohomology of restricted Wakimoto modules -- 4. Proof of Theorems 1.1 and 1.2 -- References -- Highest weight modules at the critical level and noncommutative Springer resolution -- 1. Introduction -- 2. Noncommutative Springer resolution -- 3. Perverse sheaves on the affine flag variety -- 4. Results of Frenkel-Gaitsgory and a proof of Theorem 1 -- References -- An orthogonal form for level two Hecke algebras with applications -- 1. Introduction -- 2. Level one Hecke algebras -- 3. Level two Hecke algebras -- 4. Khovanov's arc algebra -- 5. Category for Grassmannians -- 6. The general linear supergroup -- 7. The walled Brauer algebra -- References -- On the restricted projective objects in the affine category at the critical level -- 1. Introduction -- 2. Affine Kac-Moody algebras -- 3. The deformed category -- 4. Projective objects in $\mathcal{C}$ -- 5. Block decomposition of $\mathcal{C}$ -- 6. The linkage principle -- References -- Remarks on modular representations of finite groups of Lie type in non-defining characteristic -- 1. Introduction -- 2. On modular unipotent representations -- 3. Principal series representations -- 4. On the dimensions of irreducible representations

-- References -- Quantum queer superalgebras -- Toward Berenstein-Zelevinsky data in affine type , Part I: Construction of the affine analogs --Toward Berenstein-Zelevinsky data in affine type , Part II: Explicit description --On tropical dualities in cluster algebras --KKR type bijection for the exceptional affine algebra <sup>1</sup> --Iwahori's question for affine Hecke algebras --On Weyl modules of cyclotomic - Schur algebras --

2. Record Nr.

Autore

Titolo

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Vincent James H

Aerosol sampling [[electronic resource]] : science, standards, instrumentation and applications / / James H. Vincent

Chichester, England ; ; Hoboken, NJ, : John Wiley & Sons, c2007

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Aerosols

Inglese

Materiale a stampa

Monografia

Description based upon print version of record.

Includes bibliographical references and index.

Aerosol Sampling; Contents; Preface; A SCIENTIFIC FRAMEWORK FOR AEROSOL SAMPLING; 1 Introduction; 1.1 Aerosols; 1.2 Particle size; 1.3 Elementary particle size statistics; 1.4 Aerosol measurement; 1.5 Sampler performance characteristics; References; 2 Fluid and aerosol mechanical background; 2.1 Fluid mechanical background; 2.1.1 Introduction; 2.1.2 Equations of fluid motion; 2.1.3 Streamlines and streamsurfaces; 2.1.4 Boundary layers; 2.1.5 Stagnation; 2.1.6 Potential flow; 2.1.7 Turbulence; 2.2 Aerosol mechanics; 2.2.1 Particle drag force and mobility; 2.2.2 Drag coefficient; 2.2.3 Slip 2.2.4 General equation of motion under the influence of an external force2.2.5 Particle motion without external forces; 2.2.6 Particle

aerodynamic diameter; 2.2.7 Impaction; 2.2.8 Molecular diffusion; 2.2.9 Turbulent diffusion; References; 3 Experimental methods in aerosol sampler studies; 3.1 Introduction; 3.2 Methodology for assessing sampler performance; 3.2.1 The direct (trajectory) method; 3.2.2 The indirect (comparison) method; 3.2.3 Critique of the alternative methods; 3.3 Scaling relationships for aerosol samplers; 3.4 Test facilities; 3.4.1 Moving air; 3.4.2 Calm air  
3.4.3 Slowly moving air3.5 Test aerosol generation; 3.5.1 Idealised test aerosols; 3.5.2 Dry-dispersed dusts; 3.5.3 Aerosol materials; 3.5.4 Electric charge effects; 3.6 Reference methods; 3.7 Assessment of collected aerosol; 3.8 Aerosol sampler test protocols and procedures; References; 4 The nature of air flow near aerosol samplers; 4.1 Introduction; 4.2 Line and point sink samplers; 4.3 Thin-walled slot and tube entries; 4.3.1 Facing the freestream; 4.3.2 Other orientations; 4.4 Thick-walled tubes; 4.5 Simple blunt samplers facing the wind; 4.5.1 Two-dimensional blunt sampling systems  
4.5.2 Axially symmetric blunt sampling systems4.6 Blunt samplers with orientations other than facing the wind; 4.6.1 A cylindrical blunt sampler; 4.6.2 Flow stability; 4.6.3 A spherical blunt sampler; 4.7 More complex sampling systems; 4.8 Effects of freestream turbulence; References; 5 Aerosol aspiration in moving air; 5.1 Introduction; 5.2 Thin-walled tube samplers; 5.2.1 Qualitative picture of aerosol transport; 5.2.2 Impaction model for a thin-walled tube facing the freestream; 5.2.3 Physical definition of impaction efficiency for aerosol sampling  
5.2.4 Experimental studies for thin-walled tubes facing the freestream5.2.5 Experimental studies for thin-walled tubes at other orientations; 5.2.6 Impaction model for other orientations; 5.2.7 Mathematical models; 5.2.8 Conditions for 'acceptable' isokinetic sampling; 5.3 Blunt samplers; 5.3.1 Impaction model for a blunt sampler facing the freestream; 5.3.2 Experimental investigations of blunt samplers of simple shape facing the wind; 5.3.3 Blunt samplers at other orientations; 5.3.4 Mathematical and numerical approaches to blunt samplers; 5.3.5 Orientation-averaged conditions; References  
6 Aspiration in calm and slowly moving air

#### Sommario/riassunto

This book provides a comprehensive account of the important field of aerosol sampling as it is applied to the measurement of aerosols that are ubiquitous in occupational and living environments, both indoor and outdoor. It is written in four parts: Part A contains 9 chapters that describe the current knowledge of the physical science that underpins the process of aerosol sampling. Part B contains 4 chapters, which present the basis of standards for aerosols, including the link with human exposure by inhalation. Part C contains 7 chapters that cover the development of practical aerosol sa