

1. Record Nr.	UNINA9910971167703321
Autore	Winet Evan Darwin <1971->
Titolo	Indonesian Postcolonial Theatre : Spectral Genealogies and Absent Faces / / by Evan Darwin Winet
Pubbl/distr/stampa	London : , : Palgrave Macmillan UK : , : Imprint : Palgrave Macmillan, , 2010
ISBN	9786612910159 9781282910157 1282910159 9780230246676 0230246672
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (279 p.)
Collana	Studies in International Performance, , 2947-4957
Disciplina	306.4/84809598
Soggetti	Theater - History Asia - History Ethnology - Asia Culture Performing arts Theater Oriental literature Theatre History Asian History Asian Culture Theatre and Performance Arts Asian Literature
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	Cover; Contents; List of Illustrations; Series Editor's Preface; Preface; 1 Introduction: Colonial Foundations and Precessions of Postcoloniality; 2 Unimagined Communities: Theatres of Eurasian and Chinese Batavia; 3 Sites of Disappearance: Expatriate Ghosts on Ephemeral Stages; 4 Despite Their Failings: Spectres of Foreign Professionalism; 5 Hamlet and Caligula: Echoes of a Voice, Unclear in Origins; 6 Umat as Rakyat:

Performing Islam through Veils of Nationalism; 7 Teater Reformasi: The Lingering Smile of the Absent Father; Appendix: A Timeline of 'Indonesian' and 'Batavian' Histories
NotesWorks Cited; Index

Sommario/riassunto

Indonesian Postcolonial Theatre explores modern theatrical practices in Indonesia from a performance of Hamlet in the warehouses of Dutch Batavia to Ratna Sarumpaet's feminist Muslim Antigones. The book reveals patterns linking the colonial to the postcolonial eras that often conflict with the historical narratives of Indonesian nationalism.

2. Record Nr.

UNINA9910956417703321

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Titolo

Physical gels from biological and synthetic polymers // Madeleine Djabourov, Ecole Supérieure de physique et de chimie industrielles de la Ville de Paris, Katsuyoshi Nishinari, Osaka City University, Japan, Simon B. Ross-Murphy, University of Manchester

Pubbl/distr/stampa

Cambridge : , : Cambridge University Press, , 2013

ISBN

1-107-06479-1
1-139-88800-5
1-62870-279-6
1-107-05875-9
1-107-05428-1
1-107-05528-8
1-107-05750-7
1-139-02413-2
1-107-05642-X

Edizione

[1st ed.]

Descrizione fisica

1 online resource (vii, 356 pages) : digital, PDF file(s)

Disciplina

541/.345

Soggetti

Polymer colloids

Lingua di pubblicazione

Inglese

Formato

Materiale a stampa

Livello bibliografico

Monografia

Note generali

Title from publisher's bibliographic system (viewed on 05 Oct 2015).

Nota di bibliografia

Includes bibliographical references and index.

Nota di contenuto

Cover; Contents; Preface; 1 Introduction; 1.1 Gels from colloidal and

polymer networks: a brief survey; 1.2 Structural characteristics and their study; 1.2.1 Solids versus liquids; 1.2.2 Multidisciplinary nature of gel studies; 1.3 Non-physical gels; 1.3.1 Chemical gels; 1.3.2 Hybrid organic-inorganic materials; 1.3.3 Inorganic gels; 1.4 Physical gels; 1.5 Outline of the book; Chapter 2 Techniques for the characterization of physical gels; Chapter 3 The sol-gel transition; Chapter 4 General properties of polymer networks; Chapter 5 Ionic gels; Chapter 6 Hydrophobically associated networks; Chapter 7 Helical structures from neutral biopolymers; Chapter 8 Gelation through phase transformation in synthetic and natural polymers; Chapter 9 Colloidal gels from proteins and peptides; Chapter 10 Mixed gels; Chapter 11 Innovative systems and applications; References; 2 Techniques for the characterization of physical gels; 2.1 Introduction; 2.2 Scattering techniques; 2.2.1 Principles of scattering; 2.2.2 Scattering by a single particle; 2.2.3 Effect of particle concentration; 2.2.4 Polymer solutions; 2.3 Calorimetric studies; 2.3.1 Basic concepts; 2.3.2 Differential scanning calorimetry (DSC); 2.3.3 Microcalorimetry: DSC; 2.3.4 Isothermal titration calorimetry (ITC); 2.4 Microscopy of gel networks; 2.4.1 Transmission electron microscopy (TEM); 2.4.2 Atomic force microscopy (AFM); 2.5 Rheological characterization; 2.5.1 Small-deformation measurements; 2.5.1.1 Small-deformation oscillatory shear methods; 2.5.1.2 Controlled strain versus controlled stress; 2.5.1.3 Frequency and strain dependence; Polymer solutions; Polymer gels; 2.5.1.4 Creep and stress relaxation; 2.5.1.5 Temperature dependence; 2.5.1.6 Time-dependent systems; The kinetic gelation experiment; Gelation time measurement; 2.5.1.7 Range of viscoelastic linearity; 2.5.1.8 Failure of the Cox-Merz rule; 2.5.2 Large-deformation measurements; 2.6 Role of numerical simulations; 2.6.1 Fractal dimensions; 2.6.2 Gelling or non-gelling systems?; 2.6.3 Improvements of the interaction potentials; 2.7 Conclusions; References; 3 The sol-gel transition; 3.1 Flory-Stockmayer ('classical') theory; 3.2 Percolation model; 3.3 Percolation and phase transitions; 3.3.1 Extent of the critical domain; 3.4 Percolation and gelation; 3.4.1 Winter-Chambon criteria; 3.5 Experimental investigations of gelation transitions; 3.5.1 Percolation exponents; 3.5.2 Experimental determination by the Winter-Chambon criteria; 3.8 Zipper model; 3.9 Liquid crystal gels; 3.10 Conclusions; References; 4 General properties of polymer networks; 4.1 Chemically cross-linked networks and gels; 4.1.1 Non-linear materials formed from the reaction of functional groups; 4.1.2 Non-linear materials from preformed polymer chains; 4.1.3 Poly(acrylamide) and poly(NIPAm) gels; 4.1.4 Copolymer networks; 4.2 Theories of rubber elasticity; 4.2.1 Reel chain models; 4.3 Swelling of gels; 4.3.1 Discontinuous swelling

Sommario/riassunto

Presenting a unique perspective on state-of-the-art physical gels, this interdisciplinary guide provides a complete, critical analysis of the field and highlights recent developments. It shows the interconnections between the key aspects of gels, from molecules and structure through to rheological and functional properties, with each chapter focusing on a different class of gel. There is also a final chapter covering innovative systems and applications, providing the information needed to understand current and future practical applications of gels in the pharmaceutical, agricultural, cosmetic, chemical and food industries. Many research teams are involved in the field of gels, including theoreticians, experimentalists and chemical engineers, but this interdisciplinary book collates and rationalises the many different points of view to provide a clear understanding of these complex

systems for researchers and graduate students.
