

Application of flow birefringence to rheological studies of polymer melts

Delft University Press - Flow birefringence of polymer melts: Application to the investigation of time dependent rheological properties

Description: -

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Nursing.

Analgesia.

Pain.

India -- Foreign relations -- United States.

United States -- Foreign relations -- India.

India-Pakistan Conflict, 1971 -- Diplomatic history.

Full employment policies -- Russia (Federation)

Labor laws and legislation -- Russia (Federation)

Job security -- Law and legislation -- Russia (Federation)

Employment stabilization -- Law and legislation -- Russia

(Federation)

Child labor

Child labor -- Guatemala

Precious stones -- Middle West.

Liberty.

Reading (Elementary)

Refraction, Double.

Polymer melting.

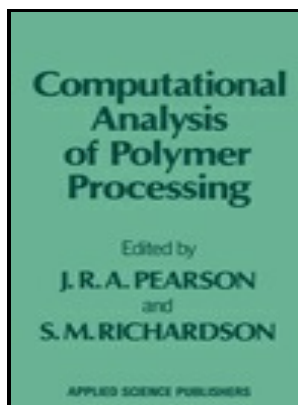
Polymers -- Rheology.application of flow birefringence to rheological studies of polymer melts

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Notes: Includes bibliographical references.

This edition was published in 1976

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The application of flow birefringence to rheological studies of polymer melts

Characteristic for liquids is that they deform and continue to deform as long as the force is present. Characteristic for solids is that they respond to a force by deforming, and, on removal of the force, by returning to their original shape.

Flow birefringence of polymer melts: Application to the investigation of time dependent rheological properties

Acta 15, 242 1976 ; see also Wales, J. Materials do not always fall readily into one or the other of the above-mentioned categories.

Validity of the stress optical law and application of birefringence to polymer complex flows

The two definitions just given for viscous and elastic response represent ~wo extremes of response to an external force.

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In the present paper dynamic shear moduli are used as reference functions.

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Relaxation Processes 1, 201 1967. In der vorliegenden Veröffentlichung dienen die dynamischen Schubmoduln als Bezugsfunktionen.

Validity of the stress optical law and application of birefringence to polymer complex flows

This chapter introduces the techniques of birefringence, to define the validity of the stress optical law in both simple and complex deformations, and to propose some examples of the interest of these techniques for the study of the flow of molten polymers.

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Flow birefringence in polymer rheology. For this study, the two constitutive equations tested were the Power-law model and the Goddard-Miller model a quasilinear corotational model. Natural birefringence or double refraction is known for some time for some particular materials, such as Iceland spar; it is because of a difference between the refractive indices along two principal directions.

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