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Constitutive Equations for Polymer Melts and Rubbers Korea-Australia Rheology Journal December 1999 Vol. 11, No. 4 295 microscopic terms as (17) where the strain functions H_1 and H_2 converge to $H_1+H_2=3$ in the linear-viscoelastic limit (Wagner and co-workers,

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ABSTRACT. The Pom-Pom model, recently introduced by McLeish and Larson [J. Rheol. 42, 81-110 (1998)], is a breakthrough in the field of viscoelastic constitutive equations. With this model, a correct nonlinear behavior in both elongation and shear is accomplished.

Differential constitutive equations for polymer melts: The

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Constitutive Equations for Polymers References: • FA Morrison, Understanding Rheology, Oxford (2001) • RG Larson, Constitutive Equations for Polymer Melts and Solutions, Butterworths (1988) • RB Bird, RC Armstrong, O Hassager, Dynamics of Polymeric Liquids, Vol. 1+2, Wiley (1987)

Constitutive Equations for Polymers

Development of constitutive equations for polymeric melts and solutions. J. L. White. University of Delaware, Newark, Delaware. Search for more papers by this author. ... A new constitutive equation in which all the significant parameters may be evaluated from only two sets of experiments is developed.

Development of constitutive equations for polymeric melts ...

KEY WORDS: polymer melts, polymer solutions, viscoelasticity,

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INTRODUCTION This review addresses the origins, uses, and evaluation of constitutive equations for the stress tensor of polymeric liquids. The continuum aspects of the subject up to about 1986 were summarized by Bird et al (1987a),

Constitutive Equations for Polymeric Liquids

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Refinements of classical theories for entangled or crosslinked polymeric systems have lead to incommensurable models for rubber networks and polymer melts, contrary to experimental evidence, which suggests a great deal of similarity. Uniaxial elongation and compression data of linear and branched polymer melts as well ...

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linear polymers are derived as consequences of dynamics of a separate macromolecule. The model is investigated for viscometric flows. It was shown that the model gives a good description of non-linear effects of simple shear polymer flows: viscosity anomalies, first and second normal stresses, non-steady shear stresses.

The Mesoscopic Constitutive Equations for Polymeric Fluids ...

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A constitutive equation derived from the model of doi and edwards for concentrated polymer solutions and polymer melts
Masao Doi Department of Physics, Faculty of Science, Tokyo Metropolitan University, Setagaya, Tokyo, Japan

A constitutive equation derived from the model of doi and ...

A main problem in constitutive modeling for the rheology of polymer melts is to get a correct nonlinear behavior in both elongation and shear. Most well-known constitutive models, such as the PTT, Giesekus, and K-BKZ models, are unable to overcome this difficulty. Recently, McLeish and Larson ~1998! have introduced a new constitutive

Differential constitutive equations for polymer melts ...

Working with the tube model for entangled polymer melts, we propose a molecular constitutive equation for an idealized

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polymer architecture, which, like LDPE, has multiple branch points per molecule.

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