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strain invariants. This result is compared with empirical results for ...

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polymers, and in liquid  
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as in dilute and concentrated solutions of flexible and rigid polymers, and in liquid crystalline materials.

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equations, and to molecular and phenomenological

theories of polymer motion and flow.

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The aim of this short  
paper is to obtain a  
simple constitutive  
equation for fast flows

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Equations For

of entangled polymer

melts from our full

theory . This kind of

simple "one-mode"

equation is required for

simulations of complex

flows, see for example

[9] , [10] , where only

the rheological

response is required

without needing

information about ...

**Simple constitutive  
equation for linear  
polymer melts ...**

title = "Differential

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constitutive equations

for polymer melts: the

extended Pom-Pom

model", abstract =

"The Pom-Pom model,

recently introduced by

Mcleish andLarson

[J.Rheol., 42(1), 1998],

is a breakthrough in

the fieldof visco-elastic

constitutive equations.

**Differential**

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KEY WORDS: polymer

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melts, polymer

solutions, Melts

viscoelasticity,

rheology, stress tensor

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),

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**Equations for  
Polymeric Liquids**

Rheological equations of state are of great importance for

characterization of polymer melts and for simulation of polymer processing. This

concise review considers tube model based constitutive

equations developed in the last 40 years since the original publication of Doi and Edwards in 1978. The emphasis is

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on the concepts,  
assumptions, and  
material parameters  
introduced to model  
nonlinear  
viscoelasticity of  
polydisperse linear and  
long-chain branched  
polymer melts.

**Review on tube  
model based  
constitutive  
equations for ...**

A factorable non-linear  
viscoelasticity model,  
the Wagner integral

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model, derived from the K-BKZ constitutive equation, was used in order to predict the non-linear rheological response of the above-mentioned lubricating grease under shear.

**Modeling of the Non-Linear Rheological Behavior of a ...**

Abstract. We review constitutive modeling of solutions and melts of linear polymers, focusing on changes in

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rheological behavior in  
shear and extensional  
flow as the  
concentration

increases from

unentangled dilute, to  
entangled, to dense

melt. The rheological  
changes are captured

by constitutive  
equations, prototypes

of which are the FENE-  
P model for

unentangled solutions  
and the DEMG model

for entangled solutions  
and melts.

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Rheology of Polymer  
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In deriving a

constitutive equation

from a molecular

model of polymers in

concentrated solutions

and melts, Doi and

Edwards used a

mathematical

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approximation, the  
“independent  
alignment  
approximation,” which  
has recently been  
shown to produce  
significant error in the  
particular case of  
stress relaxation  
following a double-step  
strain in opposite  
direction.

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

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Barnes, H.A.; Roberts,

G.P. A simple empirical

model describing the

steady-state shear and

extensional viscosities

of polymer melts. J.

Non-Newton. Fluid

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Scholar] Zatloukal, M.

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steady shear and

elongational flows. J.

Non-Newton.



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**Thermally ...**  
The experimental data  
of Matsumiya et al.

[Macromolecules 51,  
9710-9729 (2018)] for

start-up and the steady-  
state elongational flow

of monodisperse  
unentangled

polystyrene PS27k and  
poly(p-tert-

butylstyrene) PtBS53k  
melts are analyzed

based on the relaxation  
spectrum of the Rouse

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model and a single

integral constitutive  
equation. As shown by  
Lodge and Wu [Rheol.

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**Modeling nonlinear  
rheology of  
unentangled  
polymer melts ...**

His works include the  
constitutive equations  
for polymer melts, the  
application of rheology  
to the processing of  
polymers, and  
structure-property  
relationships for

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polymers. The focus of his work on rheology is

the field of non-linear shear and elongational

behavior of polymer

melts and effects of

polydispersity,

branching and blending

on melt behavior.

**Manfred Wagner -**

**Wikipedia**

Giesekus H (1982) A

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fluids based on the

concept of deformation-

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dependent tensorial

mobility. J Non-

Newtonian Fluid Mech

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(1984) A constitutive

equation for polymer

melts based on

partially extending

strand convection.

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