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Constitutive Equations for Polymer Melts and Solutions

Ronald Larson

(from the Preface) ..."a constitutive equation is a mathematical relationship that in principle allows one to calculate the stresses in a liquid given the deformation history... constitutive equations of Non-Newtonian polymeric fluids, unlike those of Newtonian fluids are not determined by a single constant."

Contents: Introduction to constitutive theory; Classical molecular models; Continuum theories; Reptation theories for melts and concentrated solutions; Constitutive models with non-affine motion; Non-separable constitutive models; A critical comparison of constitutive equations for melts; Dilute solution theories; Constitutive equations for special flows

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Erratum

'Effect of hexafluoroisobutylene moieties on the structure and properties of copolymers of ethylene and chlorotrifluoroethylene'

N. S. Murthy, S. Chandrasekaran and H. K. Reimschuessel

Polymer 1988, **29**, 829-832

Page 830, 10th line under RESULTS:

Table 2 referenced here is not printed in the paper and the data are summarized below:

As the HFIB is increased from 0 to 5%, tensile strength decreases from 3500 to 2900, 430 to 400, and 290 to 270 psi at, respectively, 100, 150 and 180°C; per cent elongation changes from 600 to 560, 450 to 370 and 40 to 90 at, respectively, 100, 150 and 180°C

Page 830, 12th line, right column, under RESULTS:

3.8 to 5.7 gms/m²/sh should read 3.8 to 5.7 gms/m²

Page 831, the following title to Table 2 is missing:

X-ray and thermal data at various HFIB concentrations

Page 832, under REFERENCES:

1271 in reference 1 should read 1871

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