

Constitutive Equations For Polymer Melts And Solutions Erworths Series In Chemical Engineering Erworths Series In Chemical Engineering

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Constitutive Equations For Polymer Melts

To simulate non-Newtonian flows numerically requires the availability of a reliable constitutive equation that would connect the stress and velocity gradient tensors existing within the fluid. In a ...

10.7: Case Study 5: Spatially Resolved Stress Measurements in Non-Newtonian Flows

Broad introduction to polymer science and technology, including polymer chemistry (major synthetic routes to polymers), polymer physics (solution and melt behavior ... covered in the class include ...

Materials Science and Engineering

We used a constitutive model and in situ synchrotron x-ray diffraction experiments to confirm that their properties originate from kinematics of load transfer between transforming and nontransforming ...

Fatigue-resistant high-performance elastocaloric materials made by additive manufacturing

(R) Prerequisite: MEM 601. Covers laminar boundary layers; approximate integral method; three-dimensional laminar boundary layer and boundary-layer control; transient boundary-layer flows; the ...

Thermal / Fluids Science Courses

Martin Kroger's research focus is on polymer physics, computational physics, applied mathematics, stochastic differential equations, coarse-graining and biophysics. Detailed information about research ...

Kröger, Martin, Prof. Dr.

Machine and instrumentation design; plasticating screw and feed system design; on-line simulation and control; polymer rheology ... Simulation including constitutive modeling of materials, development ...

David Kazmer

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