

Author Index

Bastide, J. 152
Böhm, H. 23, 62
Boué, F. 152
Buzier, M. 152

Collette, C. 152

Deloche, B. 45
Demarmels, A. 146
Donnet, J. B. 201
Dubault, A. 45
Dušek, K. 11

Eisele, U. 231
Enderle, H. F. 55

Godovsky, Yu. K. 70
Grassl, O. 62

Havránek, A. 21
Herz, J. 45, 152

Ilavský, M. 11

Keller, A. 179
Kilian, H.-G. 55, 213, 234

Lapp, A. 152
Laun, H. M. 111, 136

Meissner, J. 146
Mergenthaler, D. 234
Müller, A. J. 179

Odell, J. A. 179
Oppermann, W. 49

Pakula, T. 171
Pechhold, W. 23, 62
Picot, C. 83
Pietralla, M. 234

Rennar, N. 49
Rigbi, Z. 1, 149

v. Soden, W. 23, 62
Stadler, R. 140

Vidal, A. 201
Vilgis, T. A. 4, 243

Weymans, G. 231
Winter, H. H. 104

Zentel, R. 239

Subject Index

- birefringence 179
block copolymers 70
branching 111
– process 21
- calorimetry, deformation 70
chain, dangling 21
computer simulation 171
cooperative motion 171
coupling 149
creep 149
critical phenomenon 104
crosslinking 152
crystal polymers, liquid 239
- deformation, biaxial 55
– modes of 55
dense polymer system, model of 171
deuterium NMR 45
disorder, quenched 243
dynamics 152
- Einstein-Smallwood effect 213
elastic properties of polymer
 melts 111
elastically active networks chains, con-
 centration of 11
elasticity, rubber 49
elastomers 201, 239
elongation, multiaxial 146
elongational flow 179
– viscosity 179
energy contribution 70
entanglements 4, 49, 179
epoxy networks 11
equilibrium modulus 11
extensibility, finite 4
- ferroelectric properties 239
- filled networks 231
–, van der Waals theory of 213
filler 201, 234
– loaded vulcanisates 213
finite extensibility 55
fractal 104
- gel point 104
glass transition 171
- heat conduction 234
hydrogen bonding 140
- mass distribution, molar 111
materials science 243
matrix-filler contact 234
meander model 23, 62
mechanics, statistical 243
melts, polymer 23, 111
model network 21
Mooney-Rivlin plot 49
Mullins softening 213
- networks 4, 70, 213
–, epoxy 11
–, formation of 11
–, model 49
–, polymer 23, 104
–, polyurethane 11
– structure 231
–, swollen 62
–, transient 140
– theory 146
neutron scattering 4
- orientation 234
–, molecular 111
orientational order 45
- polydimethylsiloxane 45
- polyisobutylene 146
polymer 21
– modification 140
– networks 23, 152
– melts 23, 111, 146
polystyrene 152
polyurethane 104
– networks 11
- reinforcement 201, 231
relaxation 149, 152
–, mechanical 23
–, times spectrum 136
retardation spectrum 11
rheological properties of transient
 networks 140
rubber 45, 234
– deformation 152
– elasticity 49, 55, 243
- self diffusion 171
slip link 4
sol fraction 11
shear compliance 23, 62
small angle neutron scattering 152
solution, semi-dilute 179
strain energy function 55
styrene-butadiene rubber 231
surface activity 201
surface free energy 201
- thermoelasticity 4
thermomechanics 70
topological constraints 4
trapped entanglements 45
- van der Waals theory 55
– of filled networks 213
viscoelasticity 21, 149
–, linear 146
vulcanisates, filler-loaded 213

H. HOFFMANN, Bayreuth, FRG (Guest Editor)

New Trends in Colloid Science

(Progress in Colloid and Polymer Science, Vol. 73:

Editors: H.-G. KILIAN, Ulm, and G. LAGALY, Kiel, FRG)

1987. 204 pp. Hardcover DM 138,-, US\$ 85.00

ISBN 3-7985-0724-4 (Steinkopff Verlag). ISBN 0-387-91308-4 (Springer-Verlag New York)

"New Trends in Colloid Science" contains the proceedings of the foundation meeting of the European Colloid and Interface Society (ECIS), October 1-3, 1986. Representatives from the major European groups working in this field contributed to the conference.

The volume contains an up to date account of present developments in colloid science. The contributions cover a wide scope of subjects, and provide encouragement that structures and transport processes in dense colloidal systems can be understood on basic principles. The main subject areas include:

- phase diagrams of new surfactant systems
- microemulsions and their applications
- vesicles and bilayers
- transport properties of colloidal systems.

J. C. ERIKSSON, Stockholm; P. LINDMAN, Lund, and
P. STENIUS, Stockholm, Sweden (Guest Editors)

Surface Forces and Surfactant Systems

(Progress in Colloid & Polymer Science, Vol. 74:

Editors: H.-G. KILIAN, Ulm, and G. LAGALY, Kiel, FRG)

1987. 128 pp. Hardcover DM 94,-; US\$ 54.00

ISBN 3-7985-0745-7 (Steinkopff)

ISBN 0-387-91309-2 (Springer-Verlag New York)

This volume contains papers presented at the 9th Scandinavian Symposium on Surface Chemistry in Stockholm, Sweden, from June 4-6, 1986. Also included are some papers primarily related to the EUCHEM conference "Molecular Interactions Between Surfaces" held in Saltsjöbaden, Sweden, from June 1-4, 1986.

The main topics of the symposium were: interaction between surfaces, adsorption of proteins, phase equilibria, micelles and microemulsions and colloidal stability. Theoretical as well as applied aspects were covered. This volume will therefore be a valuable source of information to all scientists engaged in such research in both universities and the industrial sector.

Distribution in US and Canada through Springer-Verlag, 175 Fifth Avenue, New York, NY 10010; for other countries, order through your bookseller or directly from Dr. Dietrich Steinkopff Verlag, P. O. Box 11 1442, 6100 Darmstadt, FRG.



Steinkopff Verlag Darmstadt · Springer-Verlag New York

