

Constitutive Laws and Microstructure

Seminar veranstaltet von
David R. Axelrad und Wolfgang Muschik
23.-24. Februar 1987

Teilnehmer: Karl-Heinz Anthony (Paderborn), Gerd Brunk (Berlin), Wolfgang Dreyer (Berlin), W. Ebeling (Ost-Berlin), Ellinghaus (Berlin), Ch. Enz (Genf), Peter Haupt (Darmstadt), Siegfried Hess (Berlin), R. Hsieh (Stockholm), Joseph Kestin (Providence), Theodor Lehmann (Bochum), Oskar Mahrenholtz (Hamburg), Gérard A. Maugin (Paris), Ingo Müller (Berlin), Wolfgang Muschik (Berlin), E. Steck (Braunschweig), Krzysztof Wilmanski (Paderborn), Reinhard Wulfert (Berlin).

The main purpose of the seminar was to discuss the present status of material theories including microstructural phenomena and to indicate possible ways in which future research may aid in the formulation of more rigorous material theories.

The main topics of the seminar included the thermodynamics of solids, constitutive relations on the basis of stochastic process theory, the molecular dynamics of simple fluids and the microphysics of polymers as well as the electromagnetic control of properties in multiple materials. There were altogether eleven invited lectures and a comprehensive discussion at the end of the seminar. The proceedings of this meeting which was held with the cooperation of the Institute of Theoretical Physics and the Hermann Föttinger Institute of the Technical University, Berlin have been published as a "Tagungsband" by the Springer Verlag, Berlin — Heidelberg.

David R. Axelrad