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Sommario/riassunto	This work details the chemical changes that occur in deforming materials subjected to unequal compressions. While thermodynamics provides, at the macroscopic level, an excellent means of understanding & predicting the behaviour of materials in equilibrium & non-equilibrium states, much less is understood about nonhydrostatic stress & interdiffusion at the chemical level. Little is known, for example, about the chemistry of a state resulting from a cylinder of deforming material being more strongly compressed along its length than radially, a state of non-equilibrium that remains no matter how ideal the cylinder's condition in other respects. M. Brian Bayly here

provides the outline of a comprehensive approach to gaining a simplified & unified understanding of such phenomena.