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Sommario/riassunto	This is the final report, drawing its conclusions and results from many individual papers and co-workers at the Institute for Structural Analysis of the Technical University of Braunschweig. It shows the correlation between energetic and mechanical quantities of face-centred cubic metals, cold worked and softened to different states. Constitutive models for the plastic of metals are developed and the application of these models is presented. The improvements achieved by this contribution cover the material functions, the shape of yield surfaces, and the consideration of distributed experimental data within the numerical analysis.