



# Crystal Plasticity Finite Element Methods: in Materials Science and Engineering

*Franz Roters, Philip Eisenlohr, Thomas R. Bieler, Dierk Raabe*

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Written by the leading experts in computational materials science, this handy reference concisely reviews the most important aspects of plasticity modeling: constitutive laws, phase transformations, texture methods, continuum approaches and damage mechanisms. As a result, it provides the knowledge needed to avoid failures in critical systems under mechanical load. With its various application examples to micro- and macrostructure mechanics, this is an invaluable resource for mechanical engineers as well as for researchers wanting to improve on this method and extend its outreach.

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