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Sommario/riassunto	The relation between microstructures and mechanical properties has always been a challenge for materials science. Modelling the formation, properties and long term stability of microstructures is one of the most impressive and promising advances of modern materials science. This book presents recent advances and challenges in this fast evolving cross disciplinary field. It addresses applications of classical physical metallurgy, and the need for new modelling approaches, both on the analytical viewpoint and on the simulation side.