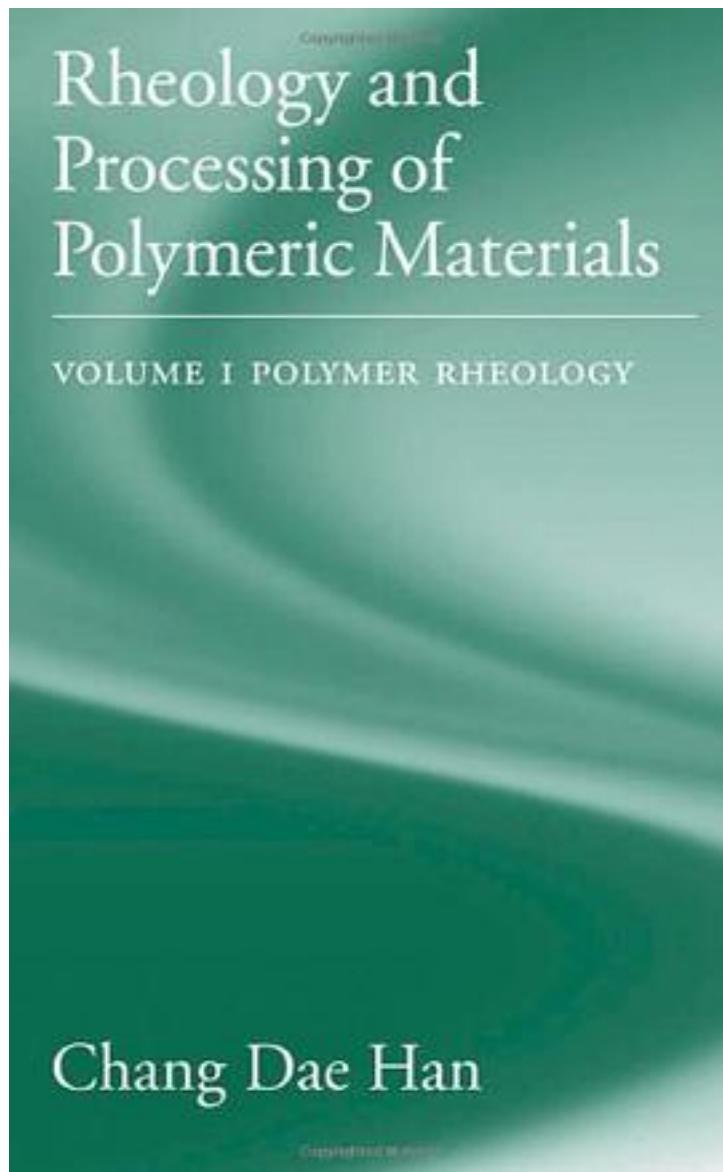


Rheology and Processing of Polymeric Materials



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Volume 2 presents the fundamental principles related to polymer processing operations including the processing of thermoplastic polymers and thermosets. The objective of this volume is not to provide recipes that necessarily guarantee better product quality. Rather, emphasis is placed on presenting a fundamental approach to effectively analyze processing operations. The specific polymer processing operations for thermoplastics include plasticating single-screw extrusion, morphology evolution during compounding of polymer blends, compatibilization of immiscible polymer blends, wire coating extrusion, fiber spinning, tubular film blowing, coextrusion, and thermoplastic foam extrusion. The specific polymer processing operations for thermosets include reaction injection molding, pultrusion of fiber-reinforced thermosets, and compression molding of thermoset composites.

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