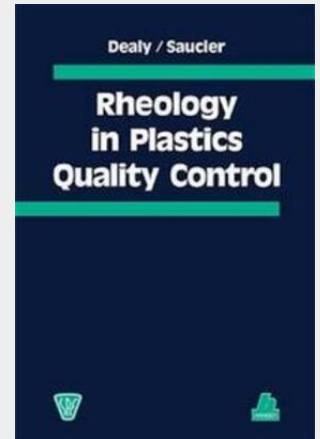Dealy / Saucier

Rheology in Plastics Quality Control

This book combines in one source an introduction to rheology, a discussion of quality management, and a presentation of the statistical tools required for the treatment of experimental data. These topics are well integrated, and special attention is given to the application of statistical analysis to rheological testing in the plastics industry. Numerous examples show how these methods can be used to solve production problems involving product quality. The compact disk that is included provides examples of the application of commercial statistical software to the use of rheology for quality control. Contents: Introduction Rheological Properties of Polymers Introduction to Quality Assurance Control Basics Capillary Rheometers Rotational Rheometers Empirical Test Methods On-Line Rheometers for Process Control Controlling the Measurement Process

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