

Rheological Models - History, Basics, and Advanced Models

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Historically speaking, people have been thinking about rheology for more than 2,000 years. However, these insights were largely empirical in nature and based on observations of the natural world.

It was not until Robert Hooke and Isaac Newton that the first rheological models emerged, which also led to mathematical expressions. Subsequently, numerous rheological models were introduced, though rheology had not yet been established as a science.

In the 1920s, rheology was established as a scientific discipline on the initiative of the chemist Bingham and the civil engineer Reiner. The latter also authored the first book on rheology. The method of rheological modeling was further developed in the subsequent period, particularly by Palmov.

The article concludes with a brief discussion of current developments in the field of rheological models.