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A Plenary Talk

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Viscosity and Heat Capacity of Glass-Forming Melts

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In this lecture, I will explain how to derive the VFT and MYEGA models that describe the viscosity (η)-temperature (T) correlation of glass-forming melts. Then I will introduce a simple approach for determining the η - T relation, which is based on the combination of the heat capacity and fictive temperature measurements with the MYEGA model. I will point out the importance of this approach in glass technology. Furthermore, I will revisit the Yue-Brückner model, which reflects the non-Newtonian flow behavior of oxide glass melts.