

position in between the fields of protoenstatite and low-clinoenstatite on one hand and protoenstatite and enstatite on the other hand, it would be very informative to have an exact knowledge about the structures of the respective end members. In the case of the rhombic enstatite exact and concordant structure analyses are available (WARREN and MODELL, 1930; LINDEMANN, 1961), but there is a controversy on the structures of low-clinoenstatite and protoenstatite between MORIMOTO *et al.* (1960) and SMITH (1959) on one side and LINDEMANN (1960) on the other side. Thus a new structural investigation of the polymorphs of $MgSiO_3$ seems to be necessary. These investigations have been started.

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