

amination provides  
e phase, a pyroxene,  
uns. As a check, the  
the composition 50  
50 per cent lime  
le, was calculated.  
ferences between  
he reflections used  
r diopside and lime  
e are given in table  
were chosen because  
unambiguously and  
ong—an important  
o be used for deter-  
mixtures of phases  
ery much pyroxene.  
e reflections listed in  
les less than  $31^\circ$  for  
ence the  $d$  values  
with high accuracy.  
the unit cells were  
squares adjustment  
at these peaks. The  
do not differ sig-  
standard errors are  
low-angle peaks are

rameters of lime  
e and diopside are  
ng with parameters  
her observers. The  
The change of  
joins diopside-lime  
le and diopside-  
figures 4 and 5. The  
obtained by applying  
ed above to a series  
l previously been  
mosphere. Compo-  
re than 40 per cent

and Diopside	
Diopside	
(H. H. Hess,	
unpublished)	
9.741	
8.924	
5.247	
74.15	
438.77	

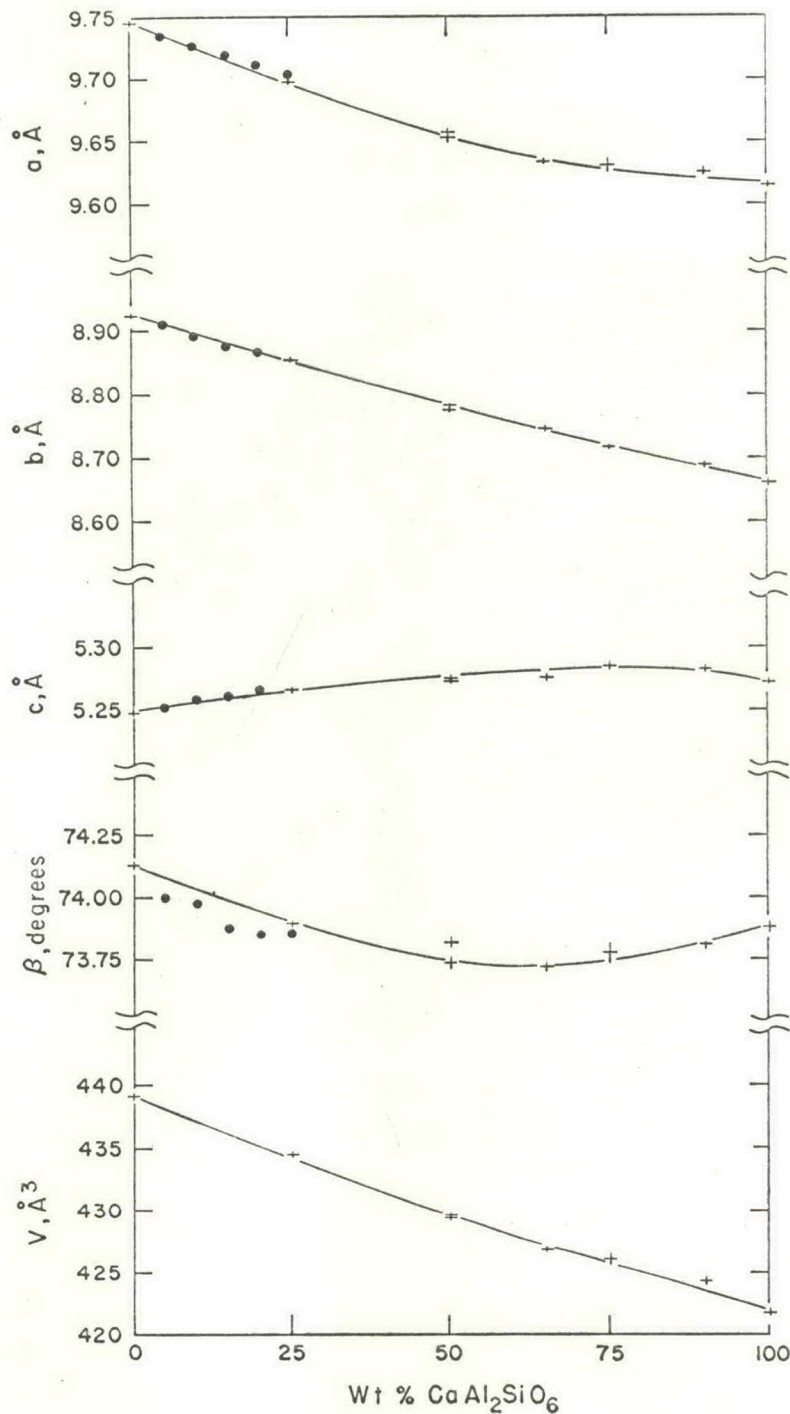


Fig. 4. Unit-cell parameters along the join diopside-lime Tschermak's molecule.