

Fe-atom with S-atom–cleft-to-cleft joins

Robert William Whitby

13 January 2004

<http://homepage.mac.com/whitby/>

Copyright 2004 by Robert William Whitby

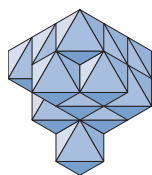
<http://web.me.com/whitby/Octahedron/Welcome.html>

Reference

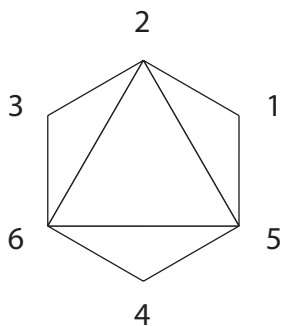
Octahedron1stEd.pdf

Introduction

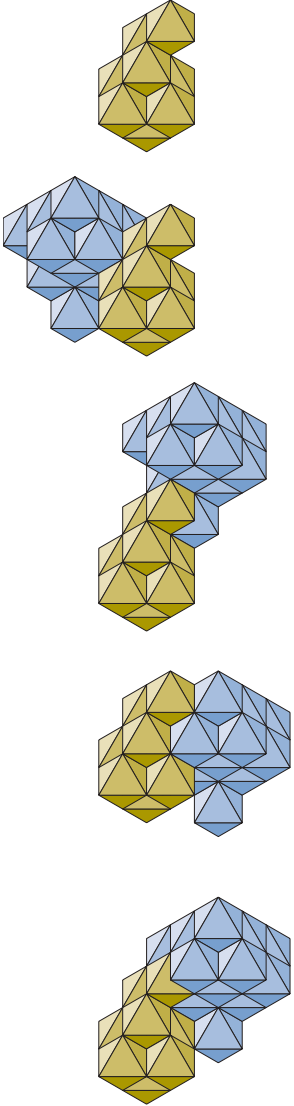
There are thirty-seven possible cleft-to-cleft joins between an Fe-atom and a S-atom. They are shown in the table below. The Fe-atom is shown in a single orientation throughout. The FeS-groups are grouped according to the orientation of the S-atom.

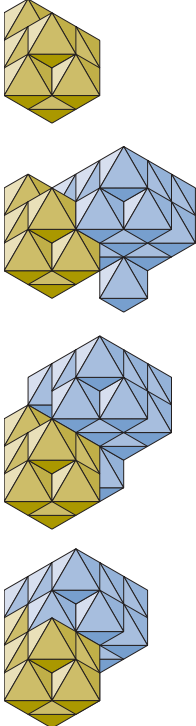
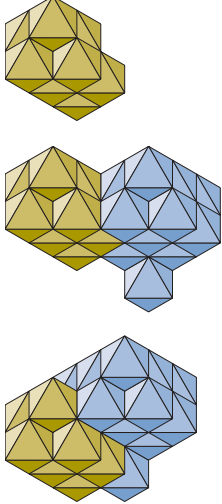


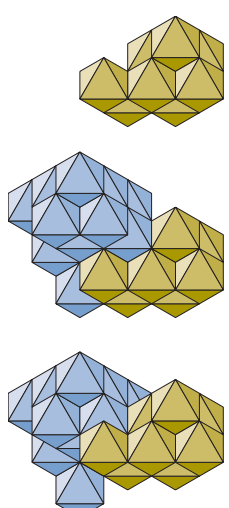
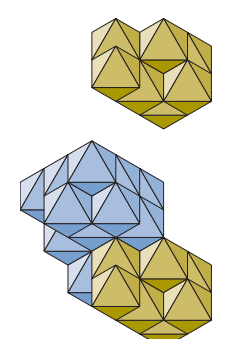
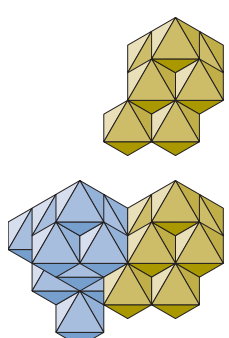
Orientation of the Fe-atom

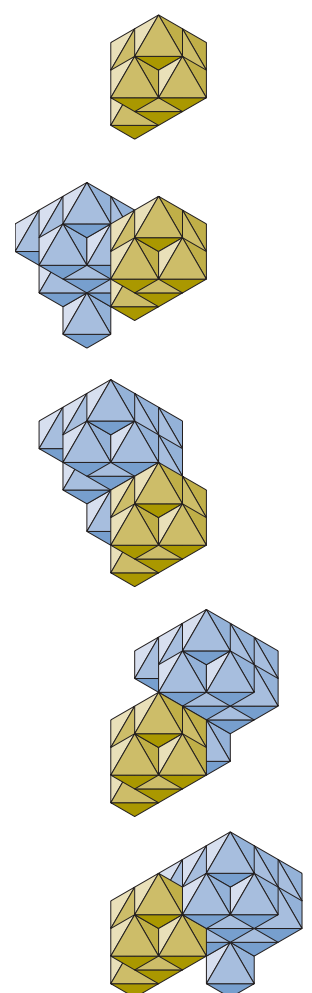
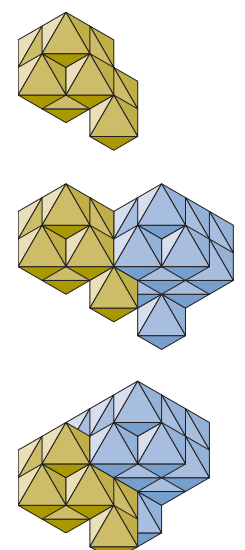


S-orientation	Groups
12	

S-orientation	Groups
13	

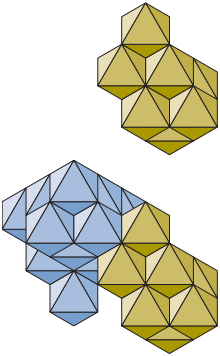
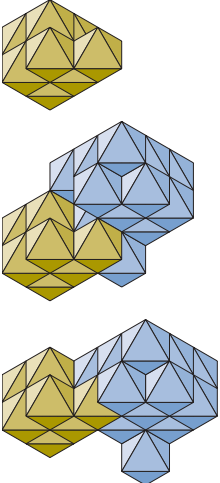
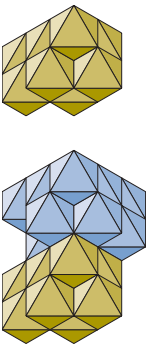
S-orientation	Groups
14	
15	

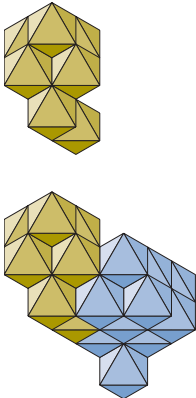
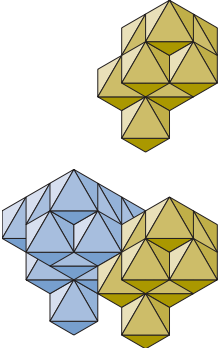
S-orientation	Groups
21	
23	
25	

S-orientation	Groups
31	
32	

S-orientation	Groups
34	
36	

S-orientation	Groups
41	
43	
45	

S-orientation	Groups
51	
52	
54	

S-orientation	Groups
56	
63	
65	