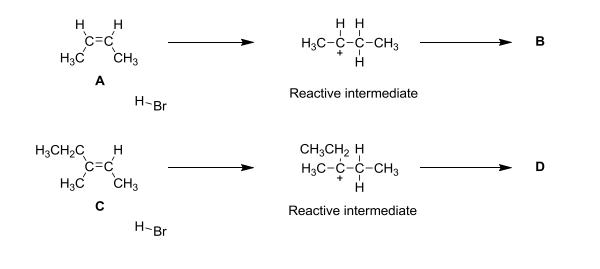


Consider the following schemes showing the reaction of two different alkenes.



1.	Name the geometric isomer A.	(1 mark)
2.	Complete the mechanisms by addition of arrows, reacting species and final products.	(6 marks)
3.	What is the name of the reactive intermediate formed in this mechanism?	(1 mark)
4.	Name the products formed, B and D.	(1 mark)
5.	The second reaction proceeds according to Markovnikov's rule.	
	What is the driving force behind this rule?	(1 mark)



Organic Chemistry 5.2.8

(b) O₂ — → 20· O₃ $O_2 + O \cdot -$

(c) UV light

Propellants in aerosols/dry cleaning solvents/coolants in fridges/manufacture of foam plastics/fire 2. extinguishers

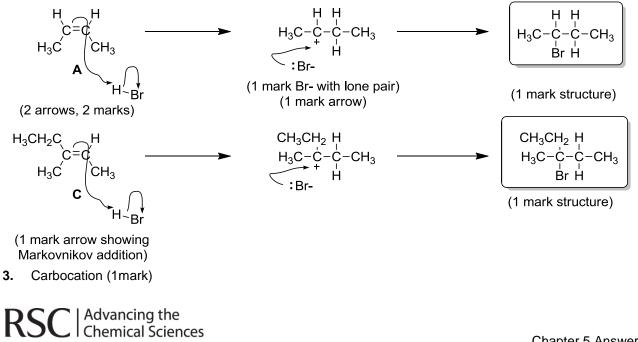
3.

(a)
$$F CI F CI F C-C-C-CI F Br$$

(b) $CF_3CBrCl_2 \longrightarrow CF_3CBrCI + Ci$
(c) $Ci + O_3 \longrightarrow CiO + O_2$
 $CiO + O_3 \longrightarrow Ci + O_2$
 $OR 2O_3 \longrightarrow 3O_2$ (1 mark)
(d) Increased UV exposure/skin cancer
(e) No chlorine/No C-CI bond
5.2.8

1. But-2-ene

2.

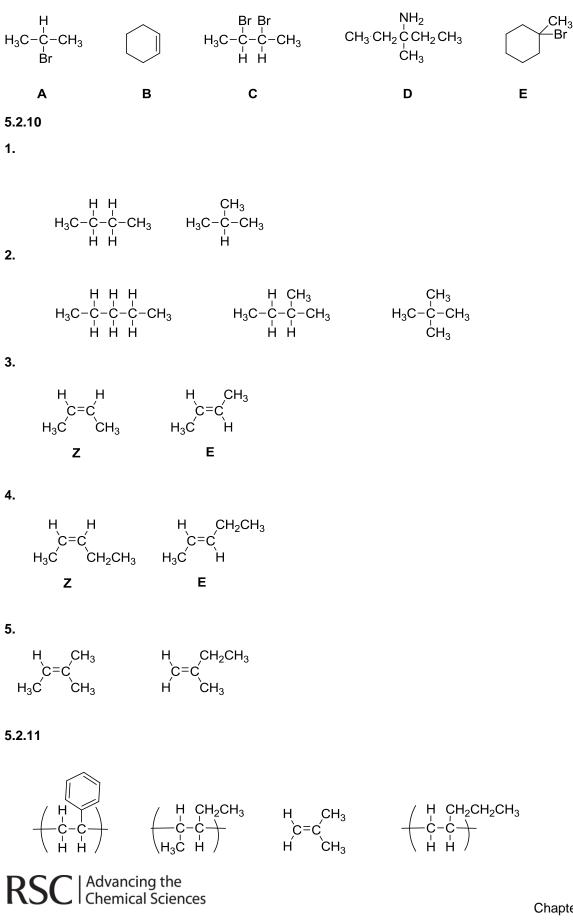


Chapter 5 Answers

4. B = 2-bromo-butane, D = 3-bromo-3-methylpentane (1/2 mark each)

5. Stability of carbocation (1 mark)

5.2.9



Chapter 5 Answers