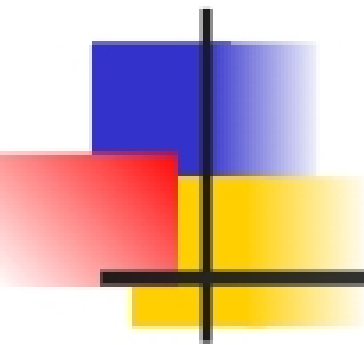


# Introduction Into Cubic Phase Lipids

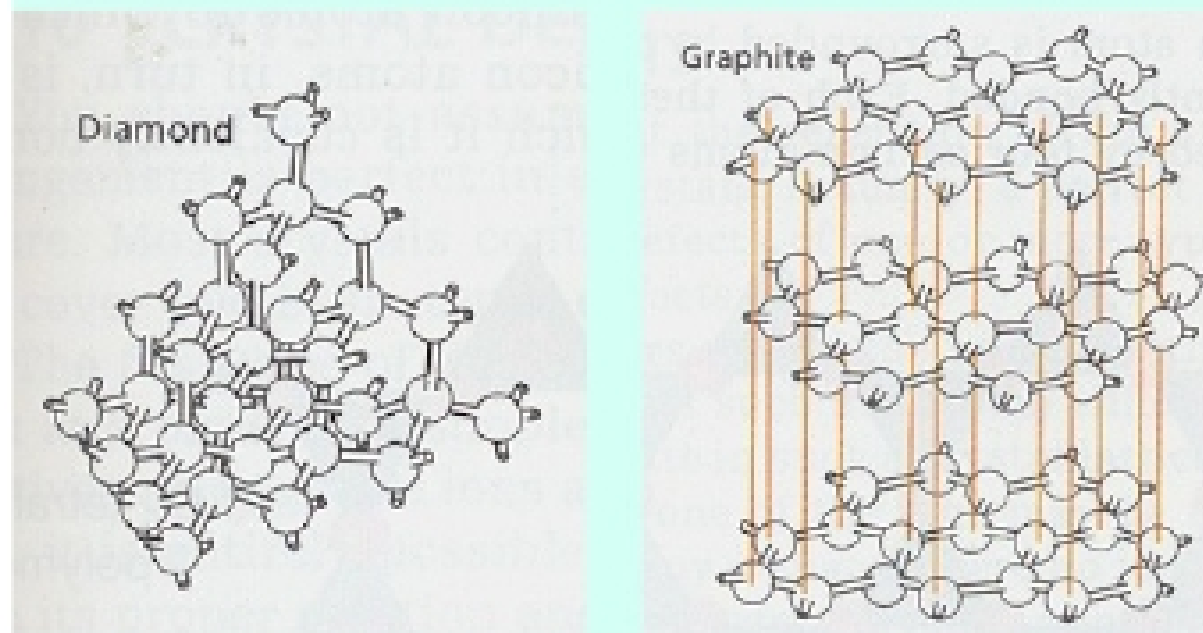


Matt Chandler

# Polymorphism

## Diamond & Graphite

*Allotropes of Carbon*



Three dimensional  
network solid

Two dimensional  
network solid

- In general, it describes multiple possible states for a single property.
- Also known as mesomorphism.
- Ex. Carbon can exist as diamond or graphite.

# Polymorphism in Lipids

- The ability of a given mixture of lipids to form crystallographically diverse structures.

A - lamellar liquid crystal phase,  $L_{\alpha}$ .

B - inverted hexagonal phase,  $H_{II}$ .

C - hexagonal phase,  $H_I$ .

