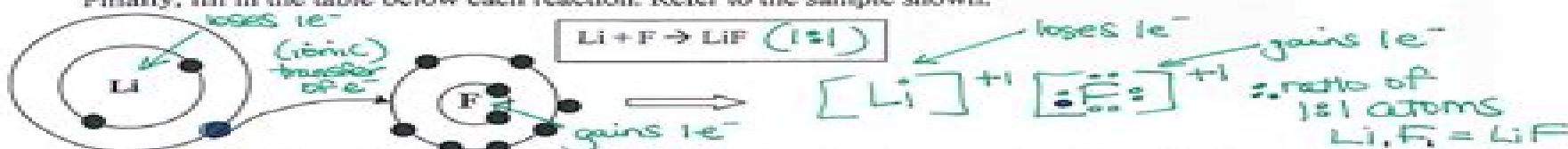


Ionic Bonding Worksheet

For each pair of elements below draw an atomic diagram showing electrons in different energy levels. Draw arrows to show where the outer electrons will go during a chemical reaction, then draw the resulting compound. Finally, fill in the table below each reaction. Refer to the sample shown.



Atoms	Valence electrons	Electron transfer from/to each atom	Ions formed in the product
Li	1ve		Li ⁺
F	7ve	transfers 1ve to F accepts 1ve from Li	F ⁻

Reactions	Atoms	Valence electrons	Electron transfer from/to each atom	Ions formed in the product
1) Li + Cl \rightarrow LiCl	Li	1ve	donates 1e ⁻	Li ⁺
	Cl	7ve	accepts 1e ⁻	Cl ⁻
2) Ca + O \rightarrow CaO	Ca	2ve	donates 2e ⁻	Ca ⁺
	O	6ve	accepts 2e ⁻	O ²⁻
3) Be + F \rightarrow BeF ₂	Be	2ve	donates 2e ⁻ to each F.	Be ⁺
	F	7ve	each F accepts 1ve each	F ⁻
4) Mg + S \rightarrow MgS	Mg	2ve	donates 2e ⁻ to S	Mg ⁺
	S	6ve	accepts 2e ⁻	S ²⁻
5) K + F \rightarrow KF	K	1ve	donates 1e ⁻	K ⁺
	F	7ve	accepts 1e ⁻	F ⁻

Ionic Bonding Chemquest 20 Answer

Kayvon Modjarrad,Sina Ebnesajjad

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Handbook of Polymer Applications in Medicine and Medical Devices Kayvon Modjarrad,Sina

Ebnesajjad,2013-12-05 While the prevalence of plastics and elastomers in medical devices is now quite well known there is less information available covering the use of medical devices and the applications of polymers beyond medical devices such as in hydrogels biopolymers and silicones beyond enhancement applications and few books in which these are combined into a single reference This book is a comprehensive reference source bringing together a number of key medical polymer topics in one place for a broad audience of engineers and scientists especially those currently developing new medical devices or seeking more information about current and future applications In addition to a broad range of applications the book also covers clinical outcomes and complications arising from the use of the polymers in the body giving engineers a vital insight into the real world implications of the devices they're creating Regulatory issues are also covered in detail The book also presents the latest developments on the use of polymers in medicine and development of nano scale devices Gathers discussions of a large number of applications of polymers in medicine in one place Provides an insight into both the legal and clinical implications of device design Relevant to industry academic and medical professionals Presents the latest developments in the field including medical devices on a nano scale

Atoms, Electrons, Structure and Bonding

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