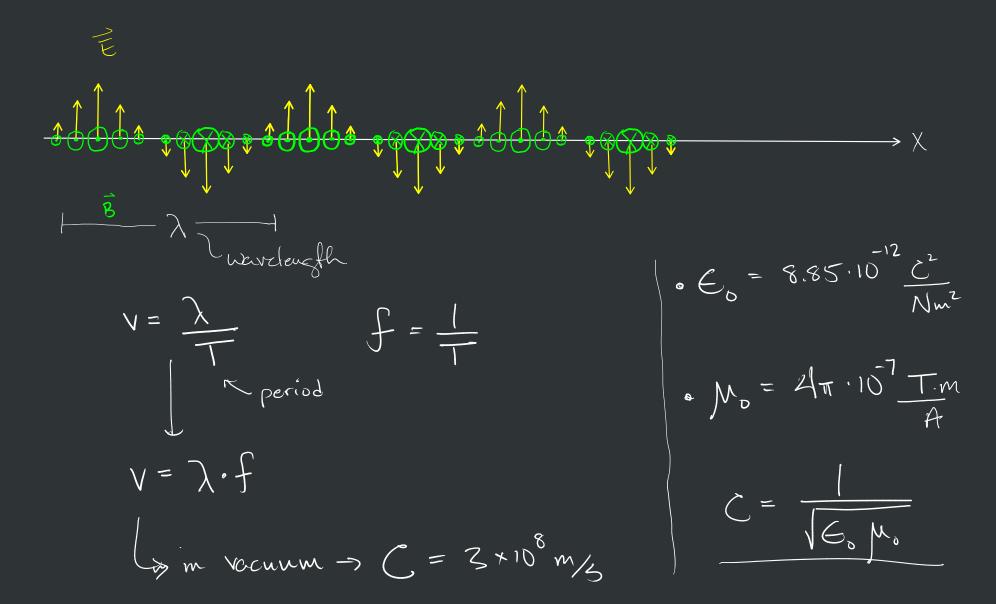
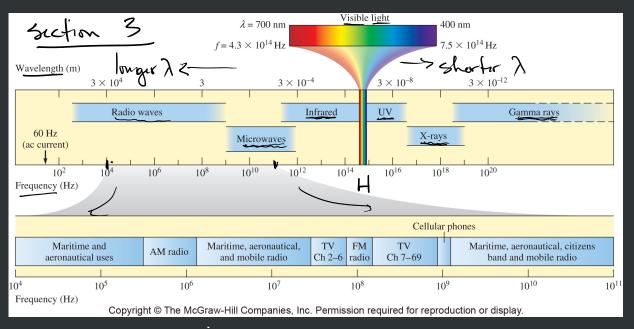
After this you can

- discuss the properties of electromagnetic waves
- discuss the electromagnetic spectrum
- apply the index of refraction





changes

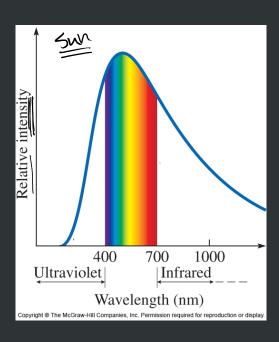
when V

changes

in vacuum

1

Table 23.1	Indices of Refraction for λ = 589.3 nm in Vacuum (at 20°C Unless Otherwise Noted)		
Material	,	Index	-
Solids			
Ice (at 0°C)		1.309	
Fluorite		1.434	
Fused quartz		1.458	
Polystyrene		1.49	
Lucite		1.5	
Plexiglas		1.51	
Crown glass		1.517	
Plate glass		1.523	
Sodium chloride	:	1.544	
Light flint glass		1.58	
Dense flint glass		1.655	
Sapphire		1.77	
Zircon		1.923	
Diamond		2.419	
Titanium dioxide	9	2.9	
Gallium phosph	ide	3.5	
Liquids			
Water		1.333	
Acetone		1.36	
Ethyl alcohol		1.361	
Carbon tetrachlo	oride	1.461	
Glycerin		1.473	
Sugar solution (80%)	1.49	
Benzene		1.501	
Carbon disulfide		1.628	
Methylene iodid	e	1.74	



o prison diffraction grating