



2014 - Vector Fourier optics of anisotropic materials - Advances in Optics and Photonics - McLeod & Wagner

2011 - Conical refraction in generalized biaxial media - IEEE - Matos et al

2007 - Chapter 2: Conical diffraction - Elsevier - Berry & Jeffrey

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哈密顿诞辰220周年

Hamilton's diabolical point at the heart of crystal optics

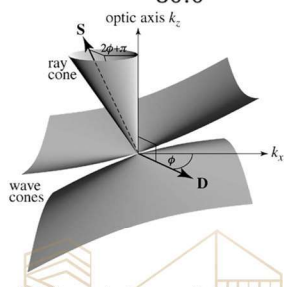
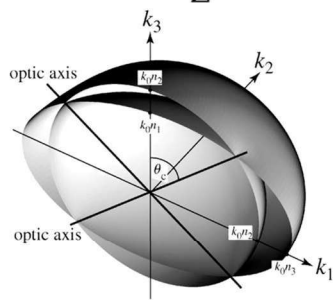
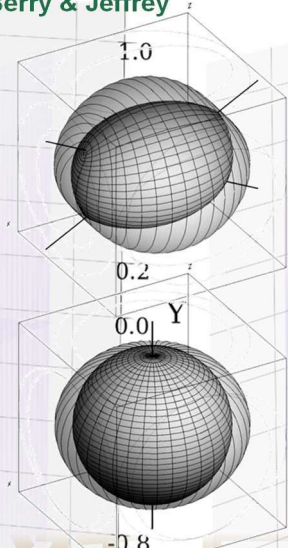


Fig. 3. The ray cone is a slant cone normal to the wave cones.

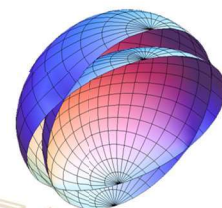


Figure 1. Biaxial medium: 3D and polar plots of the refractive index surfaces for $\epsilon_1=1.5$, $\epsilon_2=\epsilon_3=3$ and $\mu_1=\mu_2=3$, $\mu_3=2$.

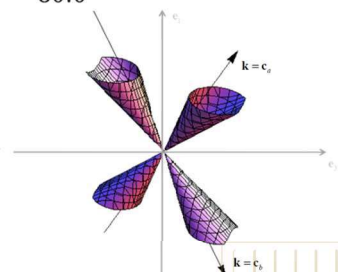
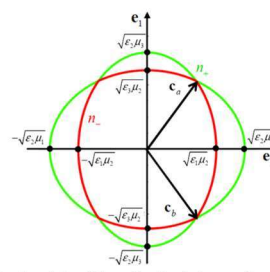


Figure 2. Representation of the core generated by the ray vector s , according to Eqs. (10) for $\epsilon_1=2$, $\epsilon_2=3/2$, $\epsilon_3=1$ and $\mu_1=\mu_2=2$, $\mu_3=3$.

Fig. 2. Wave surface for $n_1=1.1$, $n_2=1.4$, $n_3=1.8$, showing the four diabolical points on the two optic axes.