1.1 ОБЩАЯ ХАРАКТЕРИСТИКА ПОЛЯ ИЗЛУЧЕНИЯ

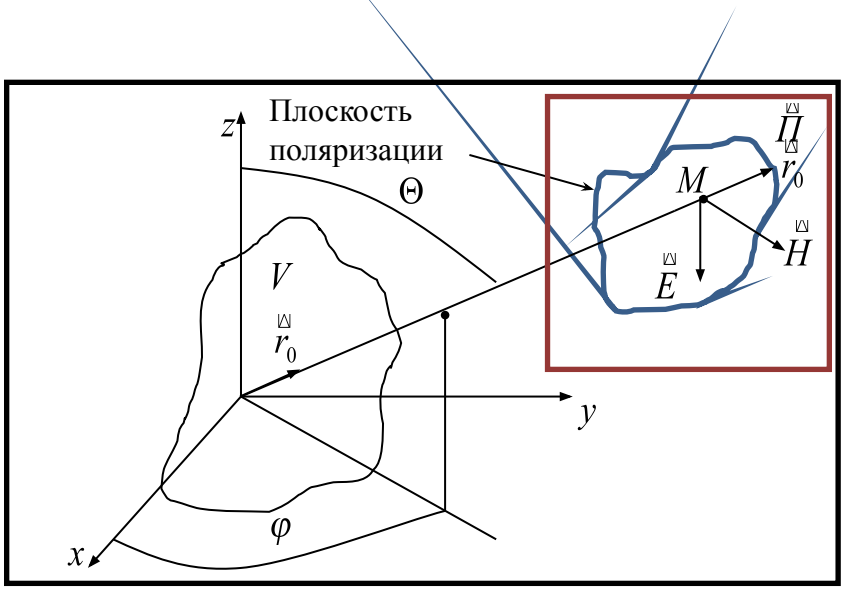


Рис.1.3. Ориентация поля в зоне излучения

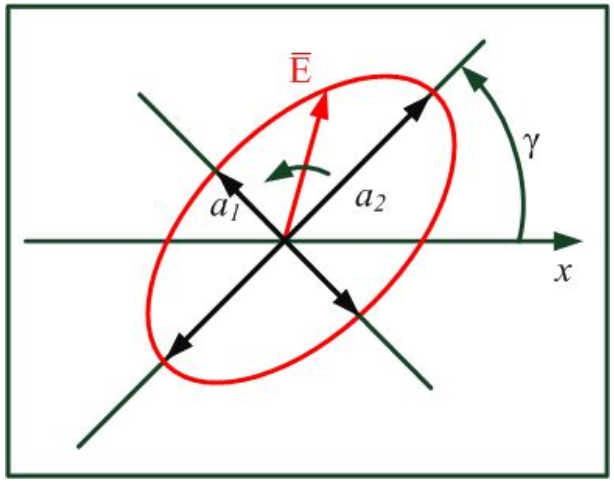
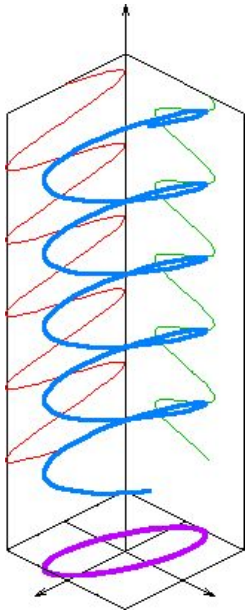
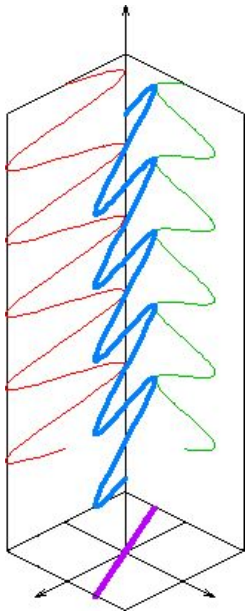
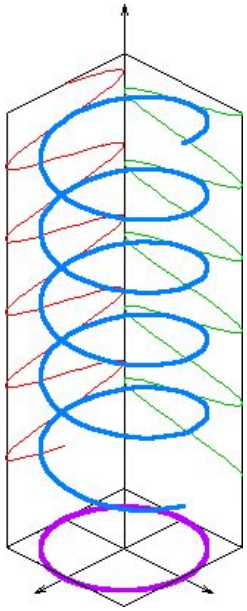
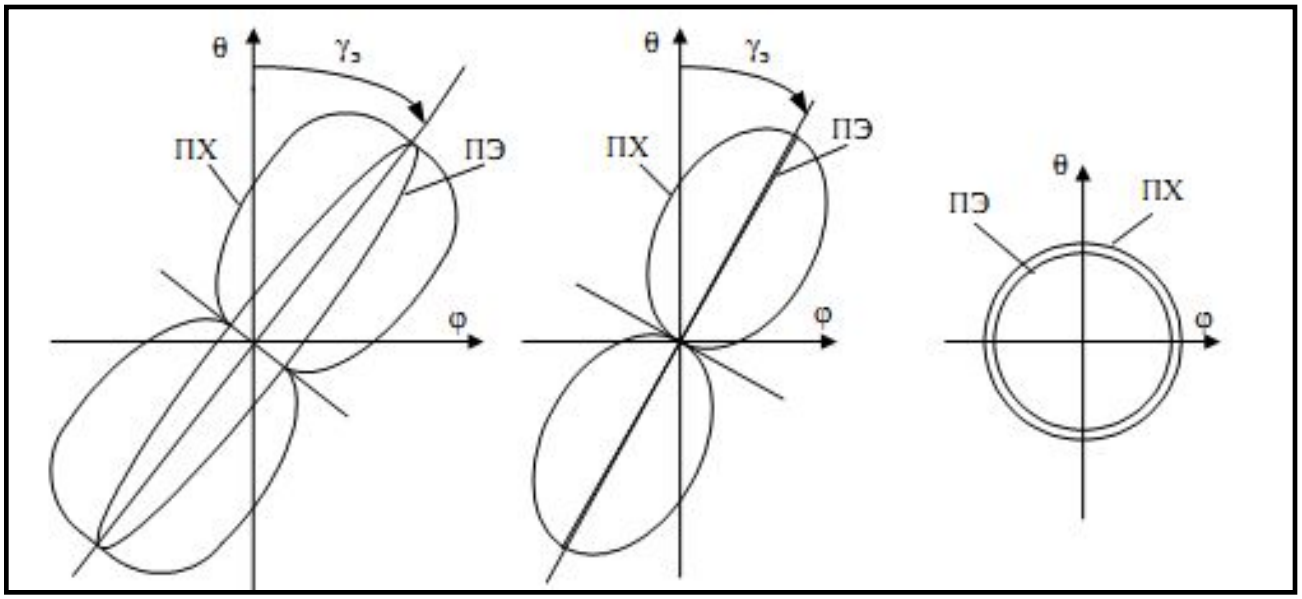


Рис.1.4. Поляризационный эллипс









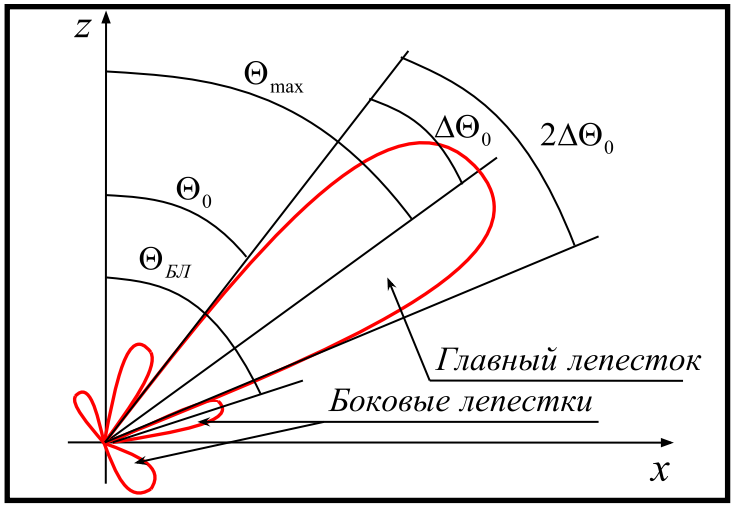
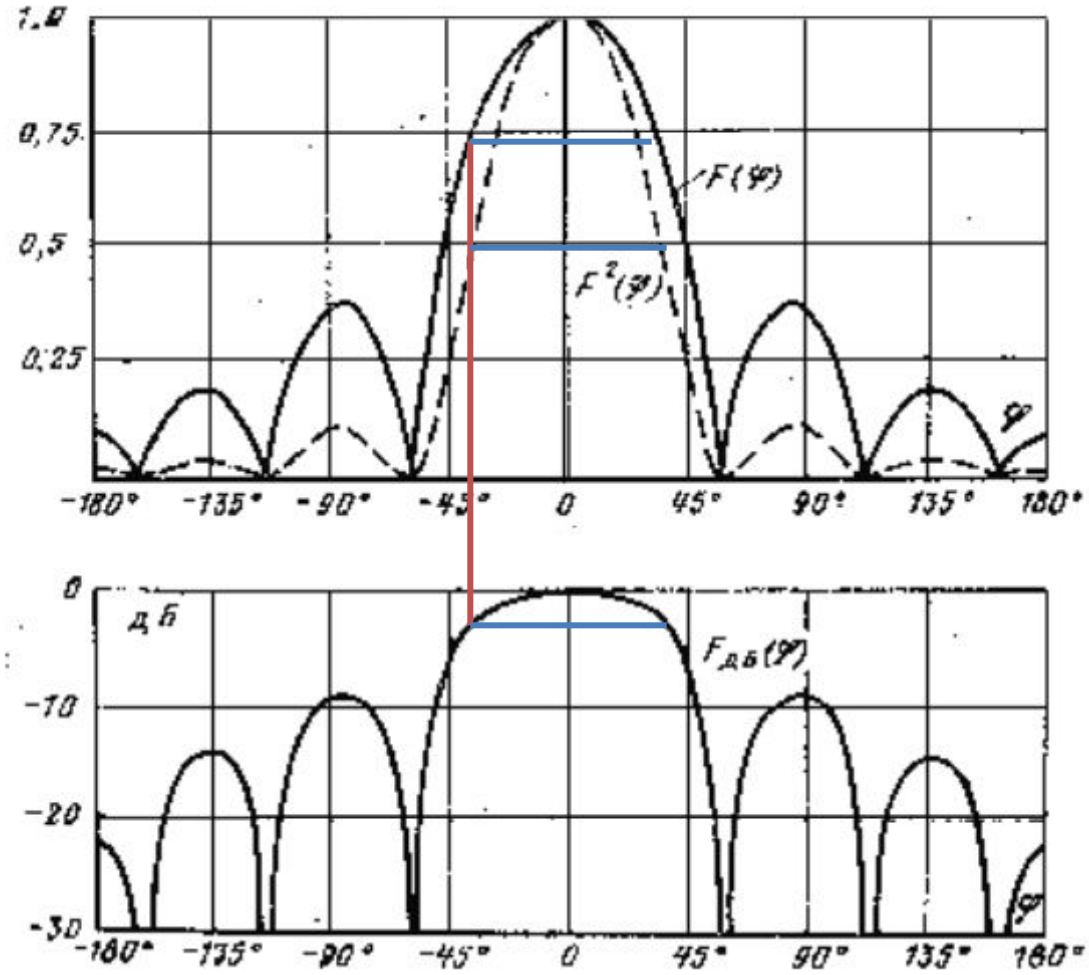


Рис.1.5. Типовая амплитудная диаграмма направленности антенны

Амплитудная ДН в декартовой системе координат



ДН в декартовой системе координат в логарифмическом масштабе

$$\boxed{F_{дБ}(\theta) = 10\lg\left|F^2(\theta)\right| = 20\lg\left|F(\theta)\right|}$$

$$10\lg\left|0{,}5\right| = 20\lg\left|0{,}707\right| = -3\ дБ$$

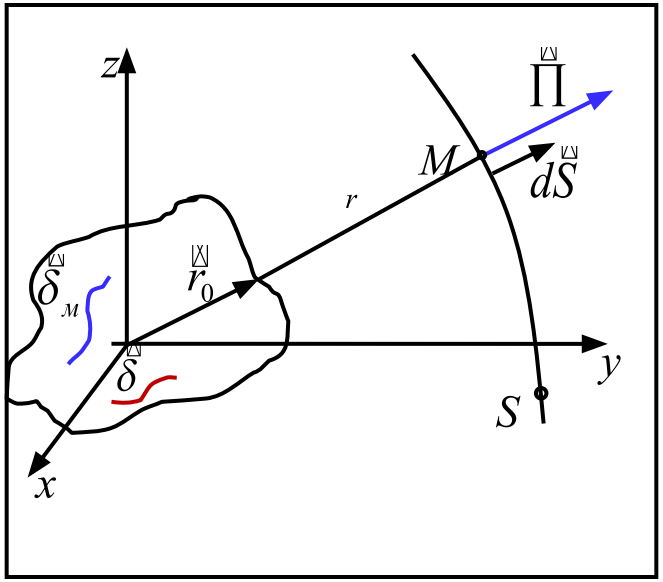


Рис.1.6. К расчету мощности излучения антенны

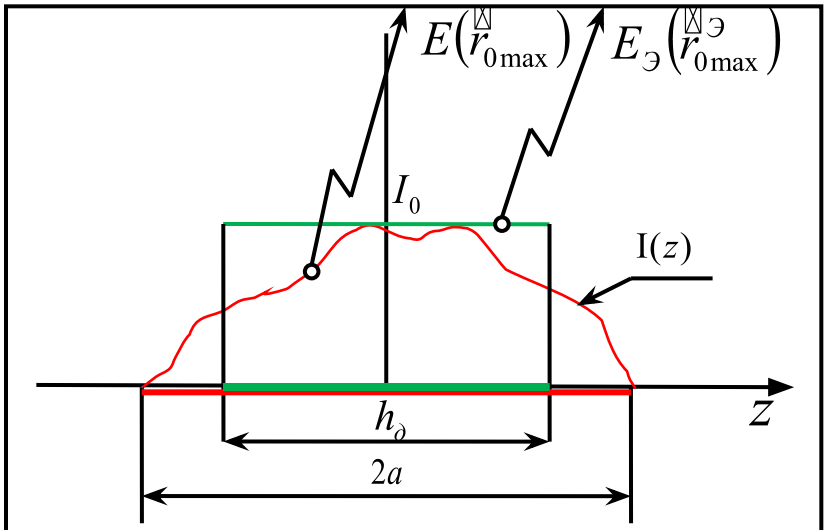


Рис.1.7. К определению действующей длины антенны