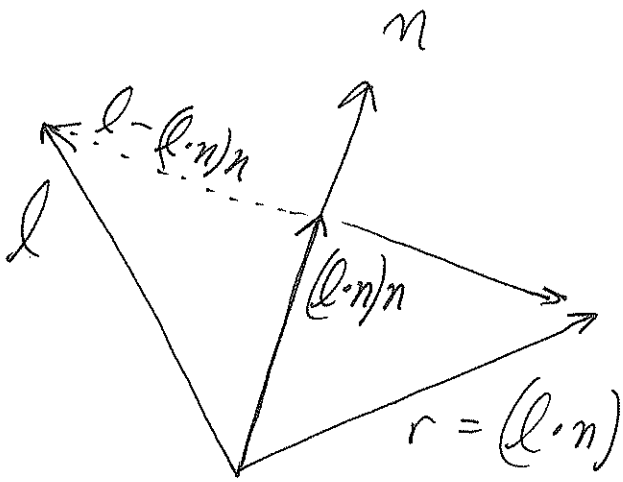
Lecture 6

Find r ?




$$r = (l\cdot n)n - l + (l\cdot n)n$$
$$= -l + 2(l\cdot n)n$$
$$= (-I + 2nn^T)\,l$$

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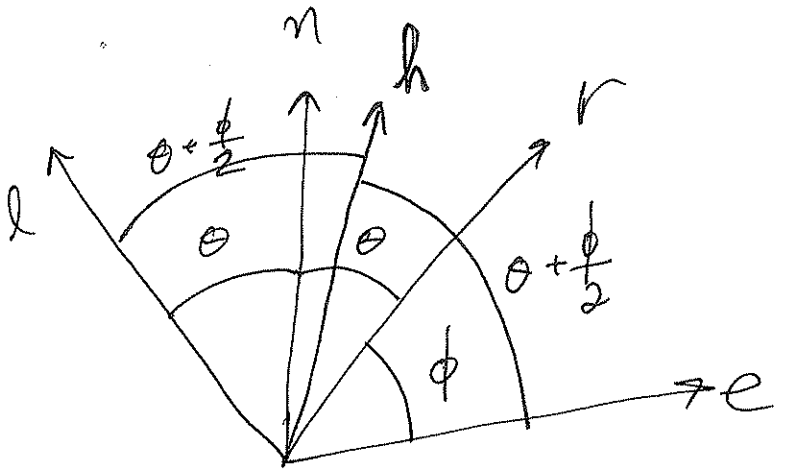


$$\max(0, e\cdot r)^p$$

vs.

$$(h\cdot n)^p$$

$0 \le h\cdot n \le 1$

if eye & light are above the plane

$$\angle(e,r) = \phi$$
$$\angle(n,h) = \frac{\phi}{2}$$