

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

I . Pesyanian

Medical physics MSc

Department of Radiology

Paramedical School

Tabriz university of Medical sciences

The Radiograph

Sensitometry

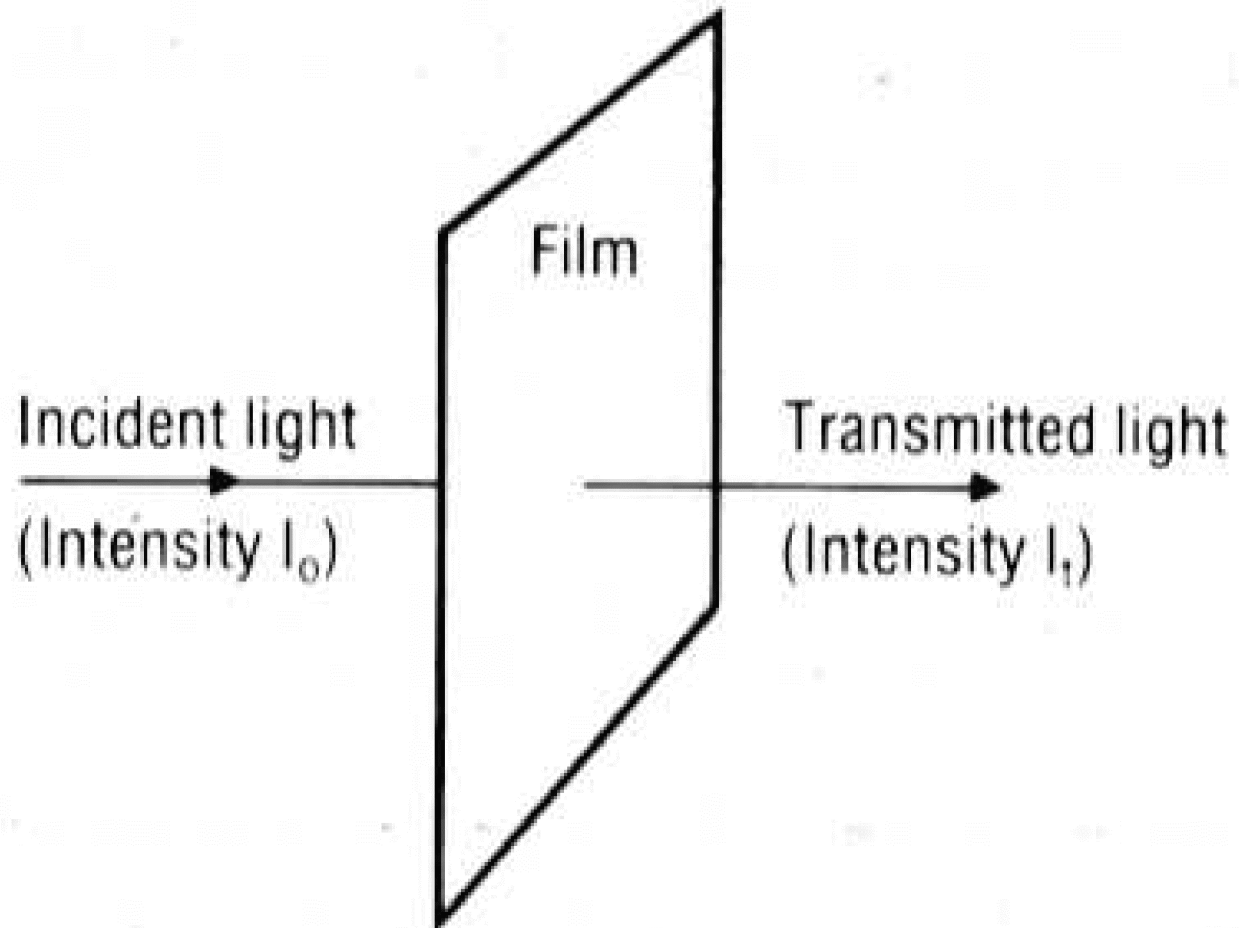
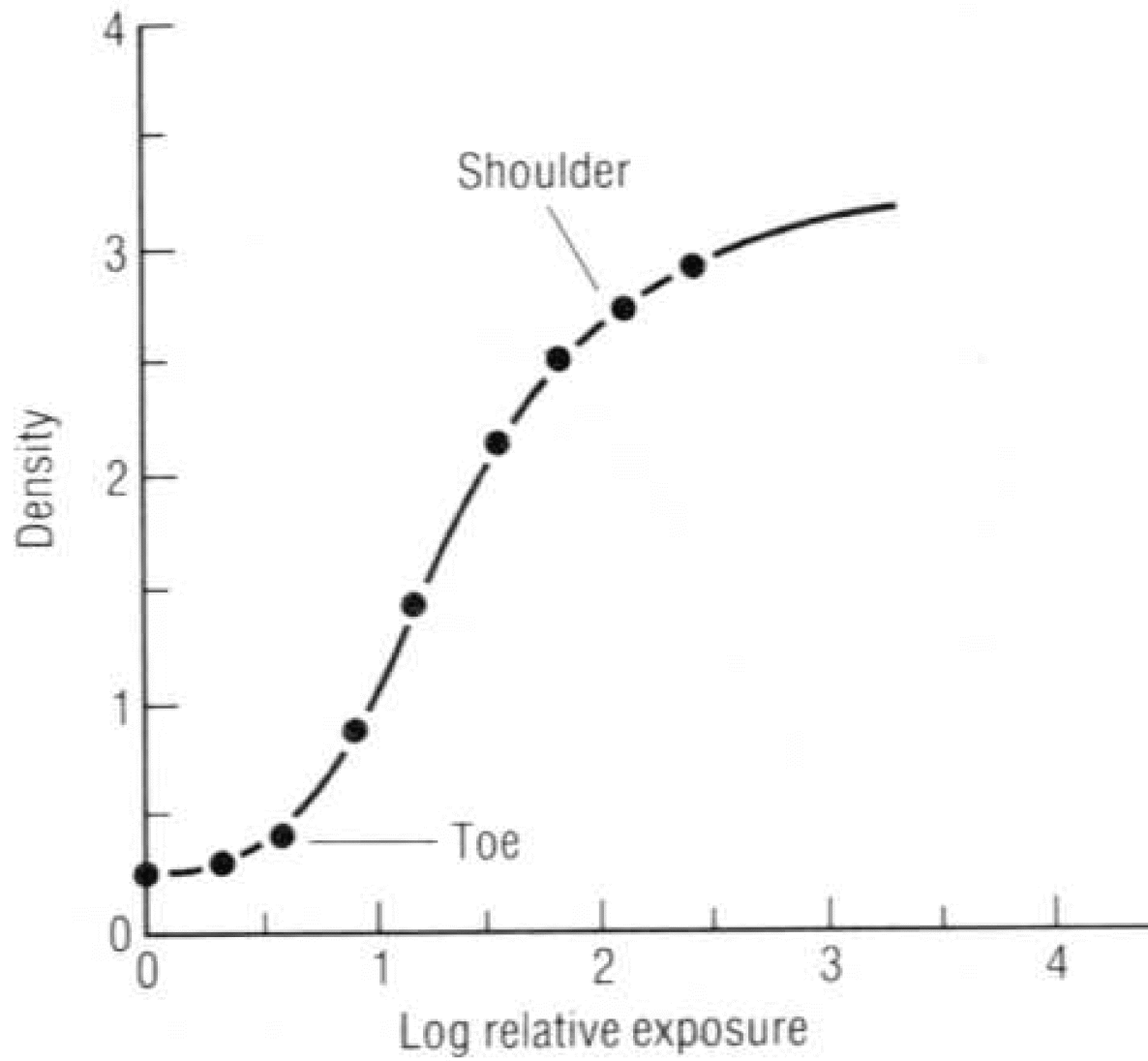


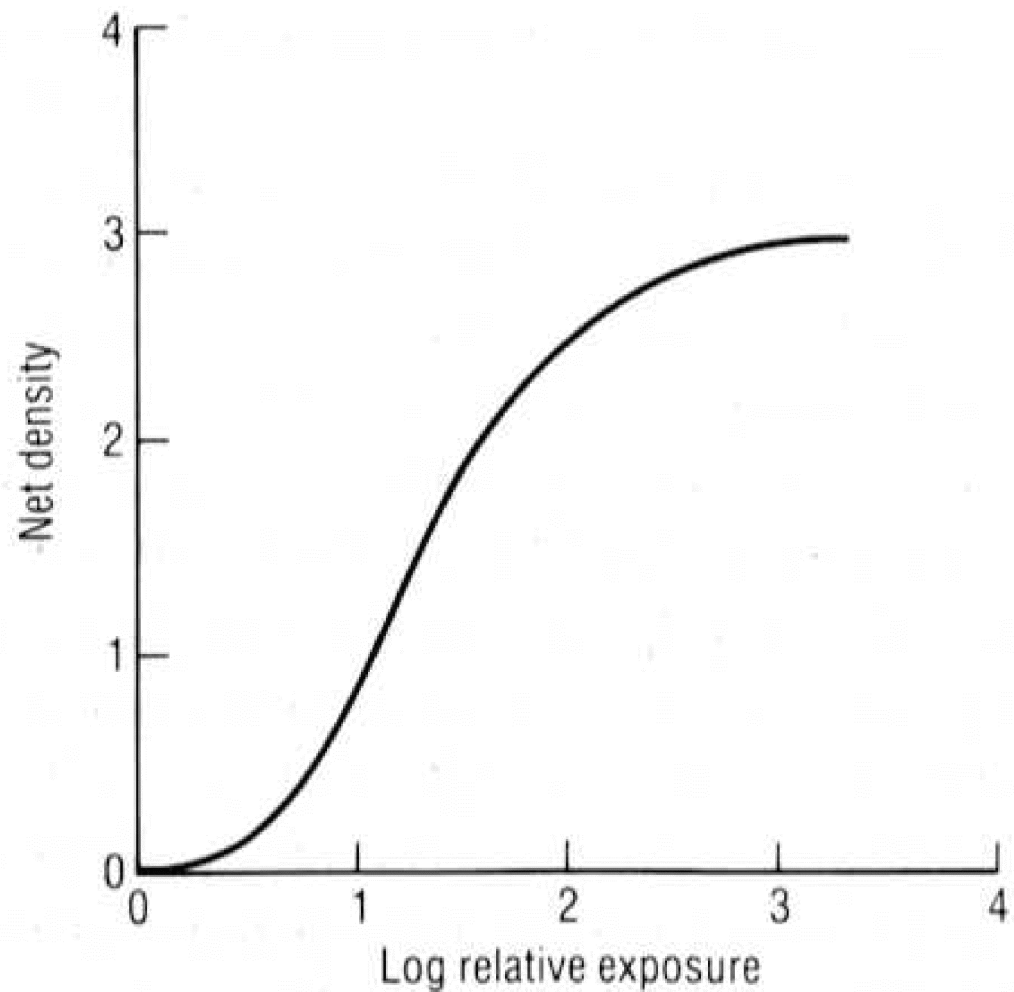
Table 4.1. The relative exposures received by different areas of the film

Area	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>
Relative exposure	1	2	4	8	16	32	64	128	256

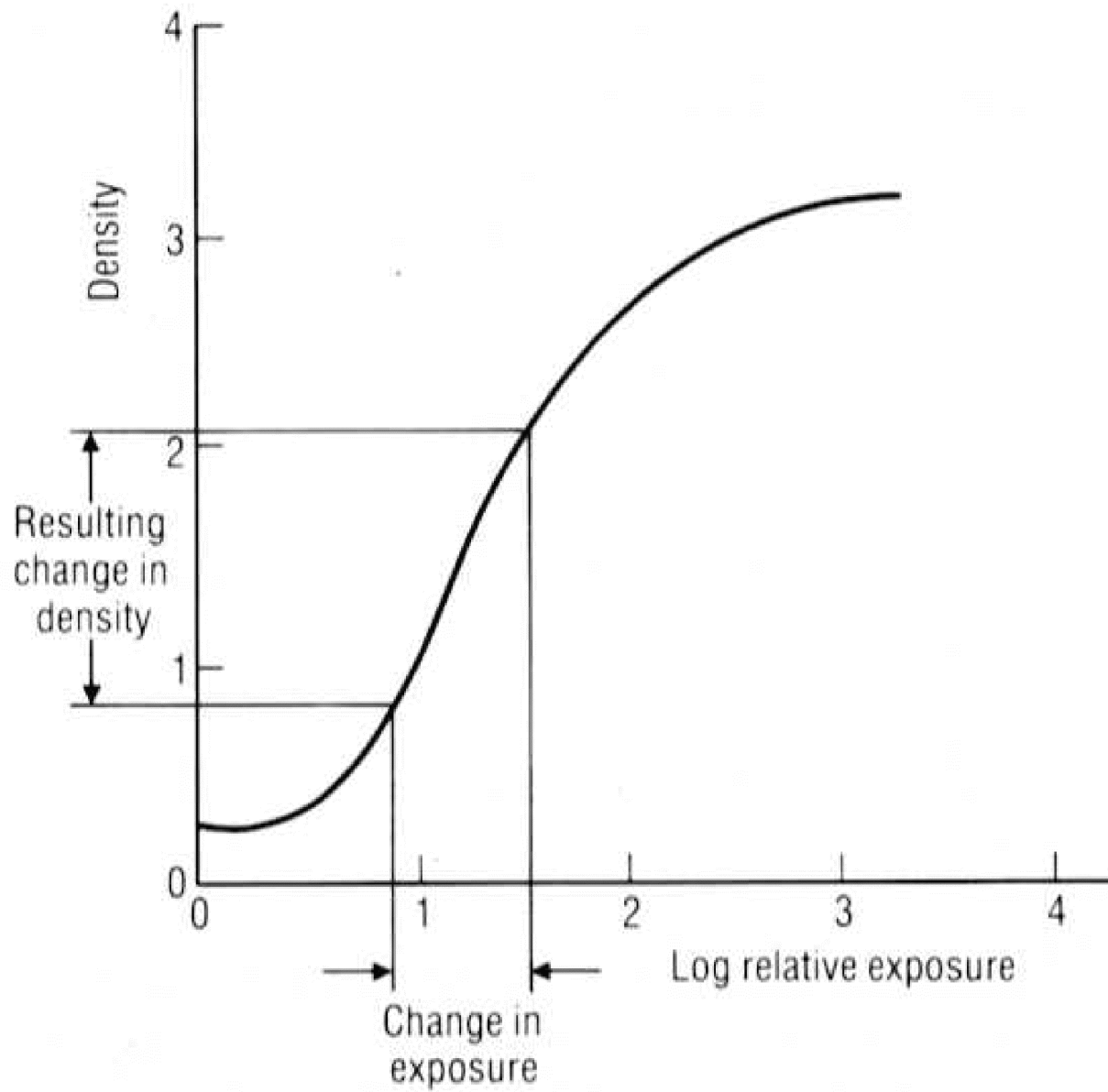
Table 4.2. Tabulation of results obtained prior to plotting a characteristic curve

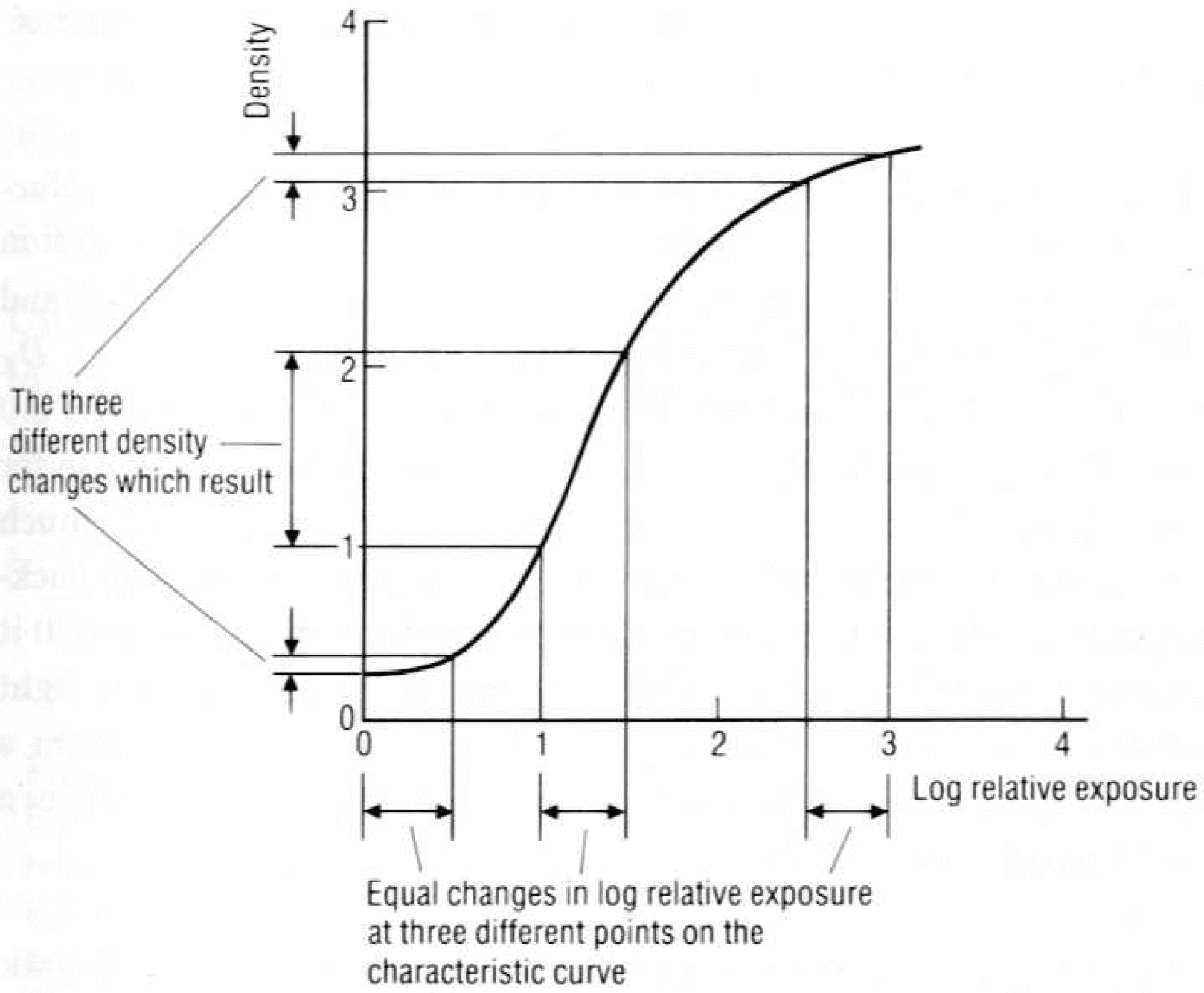
Area	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>
Density	0.25	0.3	0.4	0.9	1.45	2.1	2.5	2.7	2.9
Relative exposure	1	2	4	8	16	32	64	128	256
Log relative exposure	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4





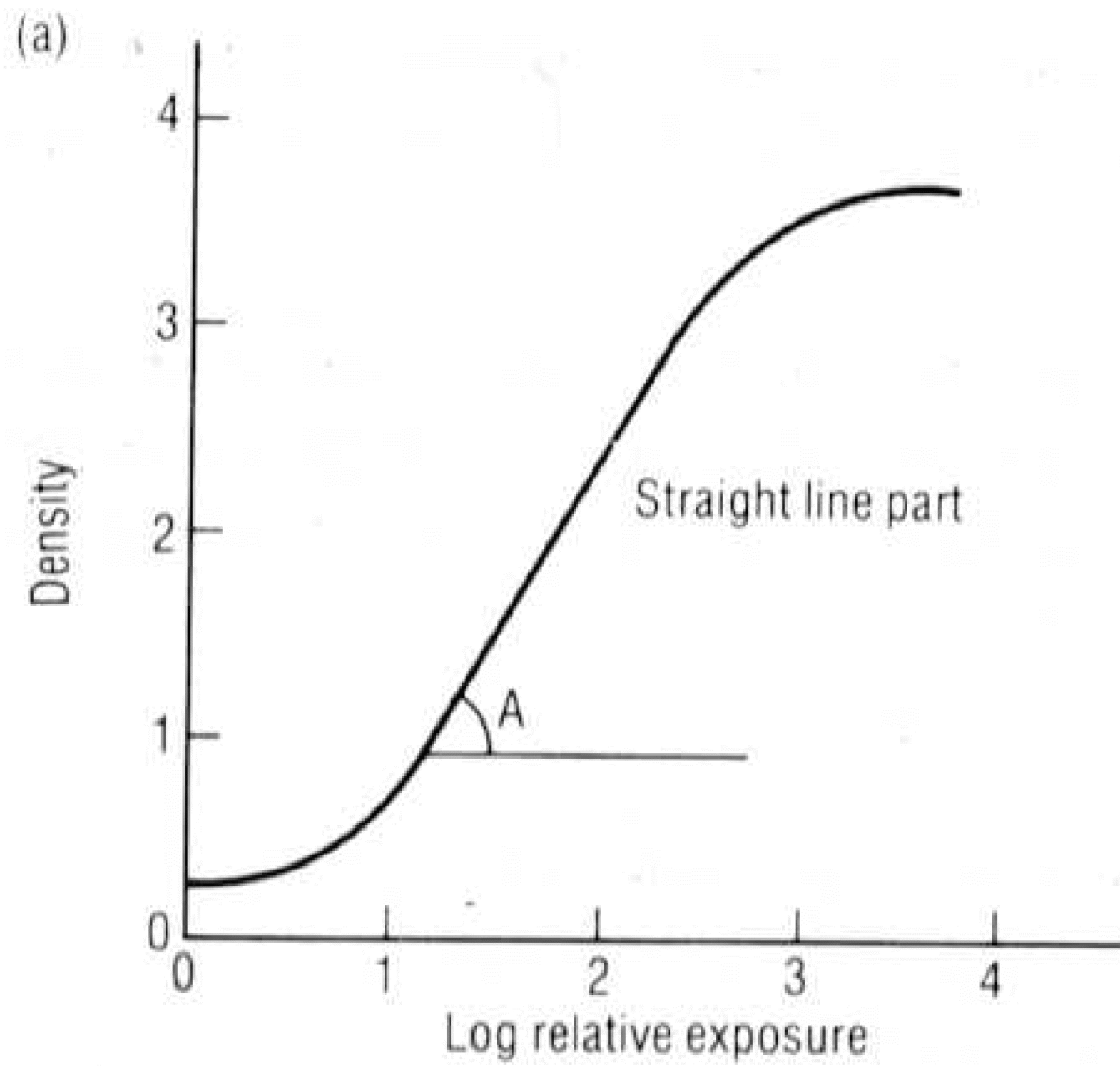
4.14 A characteristic curve obtained by plotting *net* values of ity. Note that the curve appears to pass through the origin of linates.



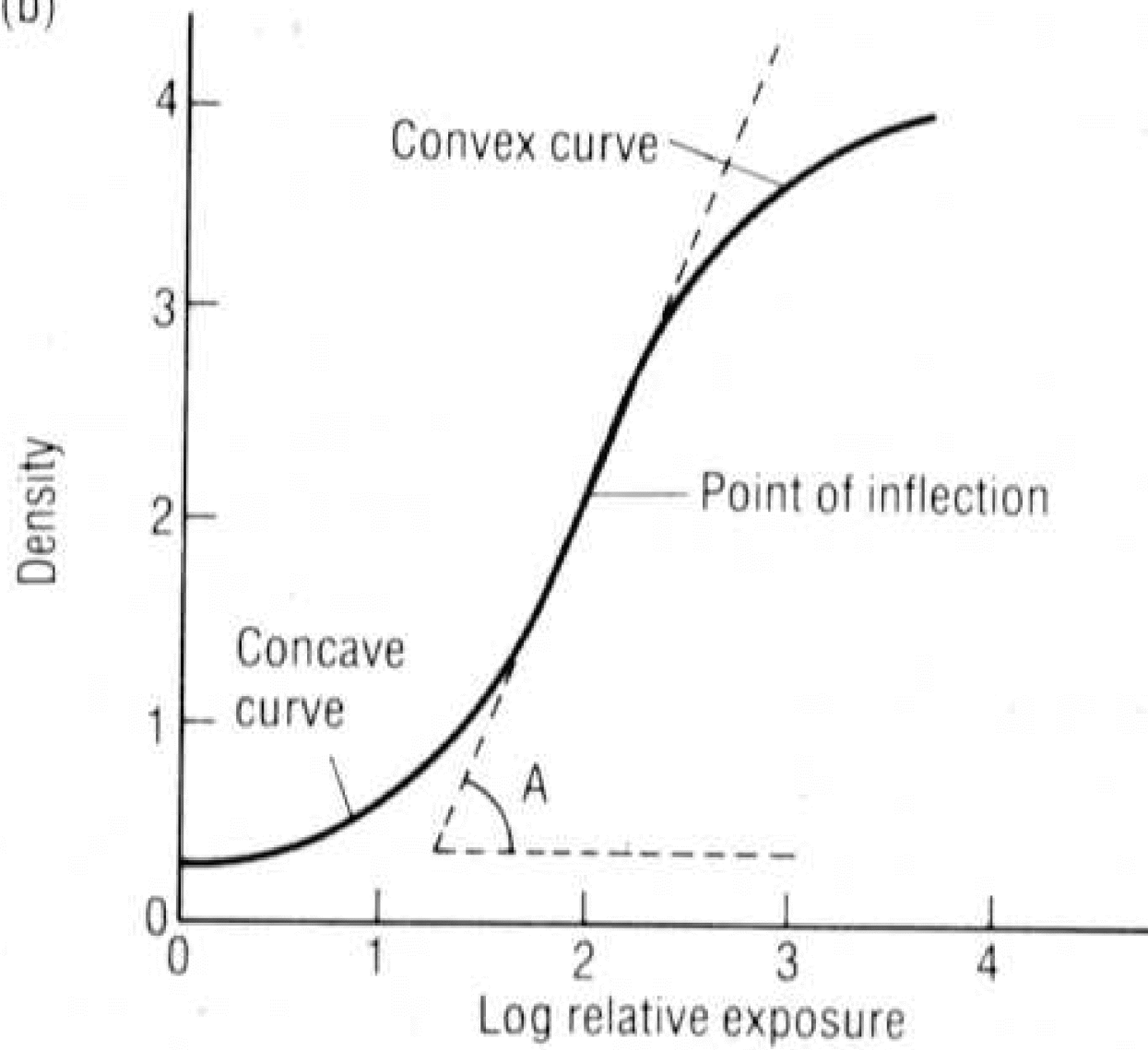


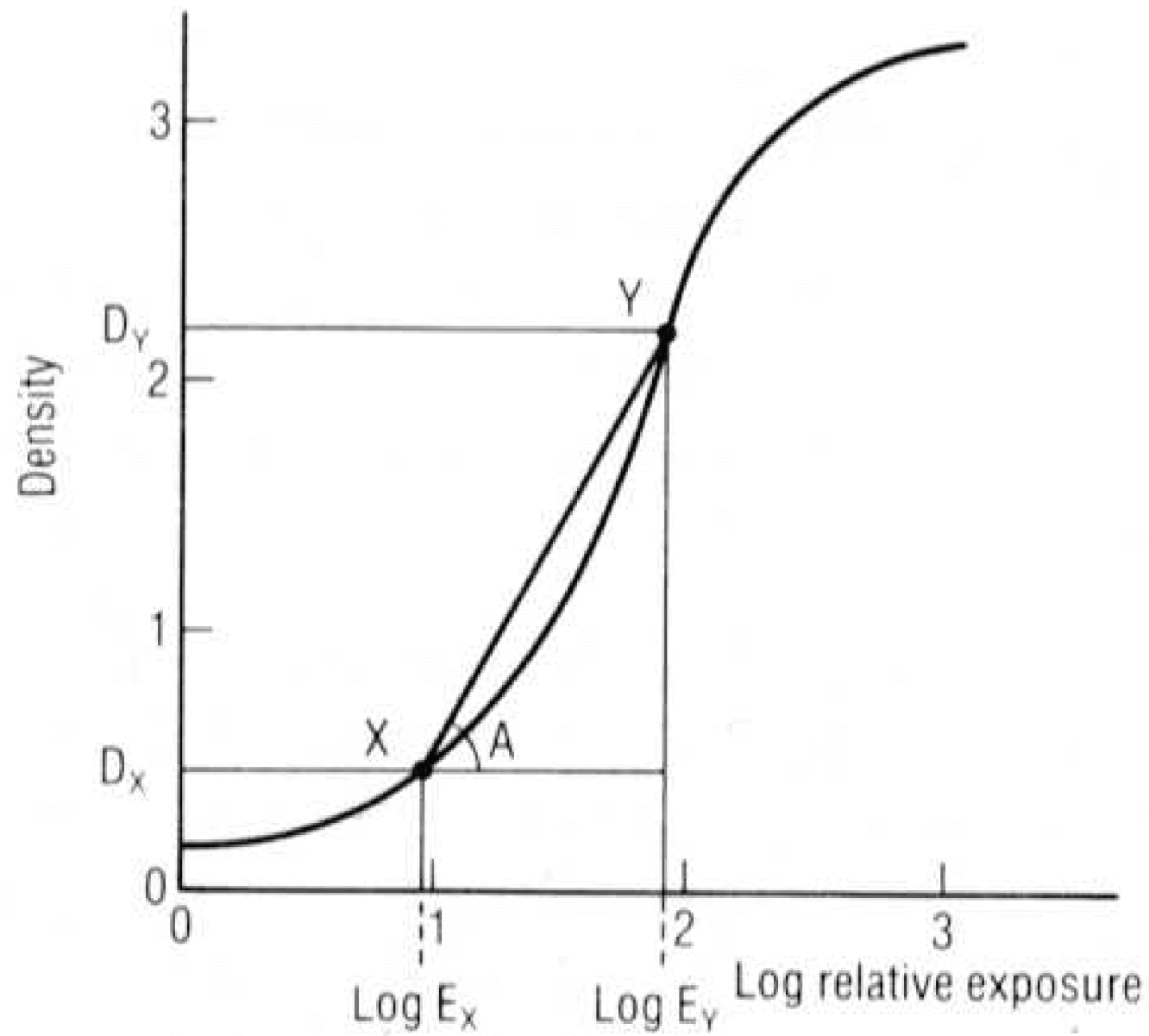
The three different density changes which result

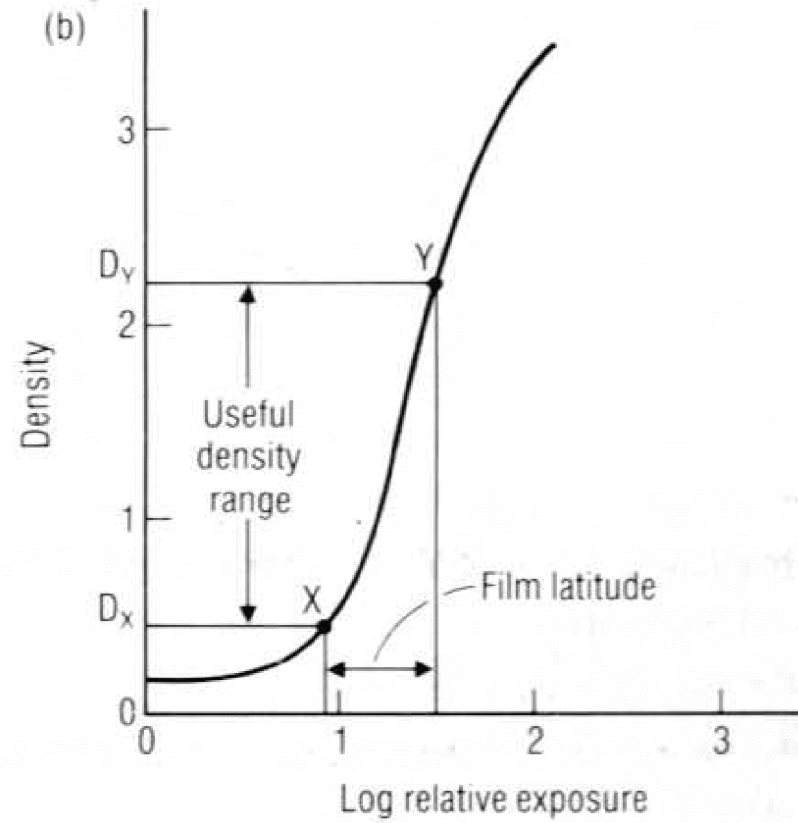
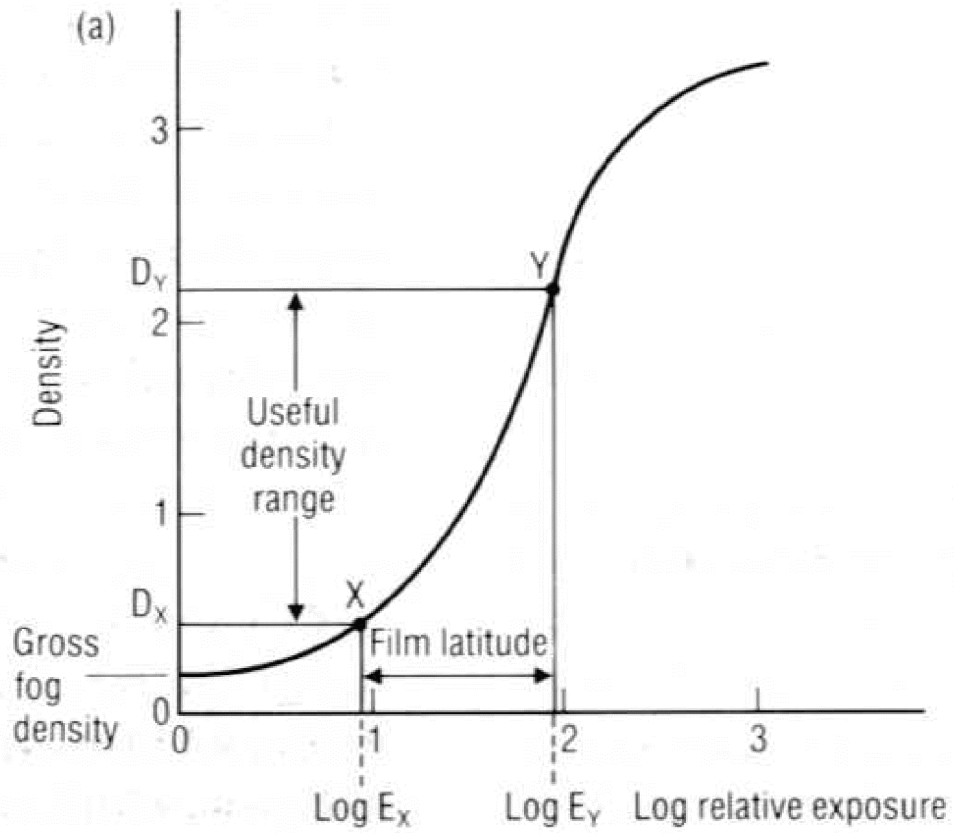
Equal changes in log relative exposure at three different points on the characteristic curve

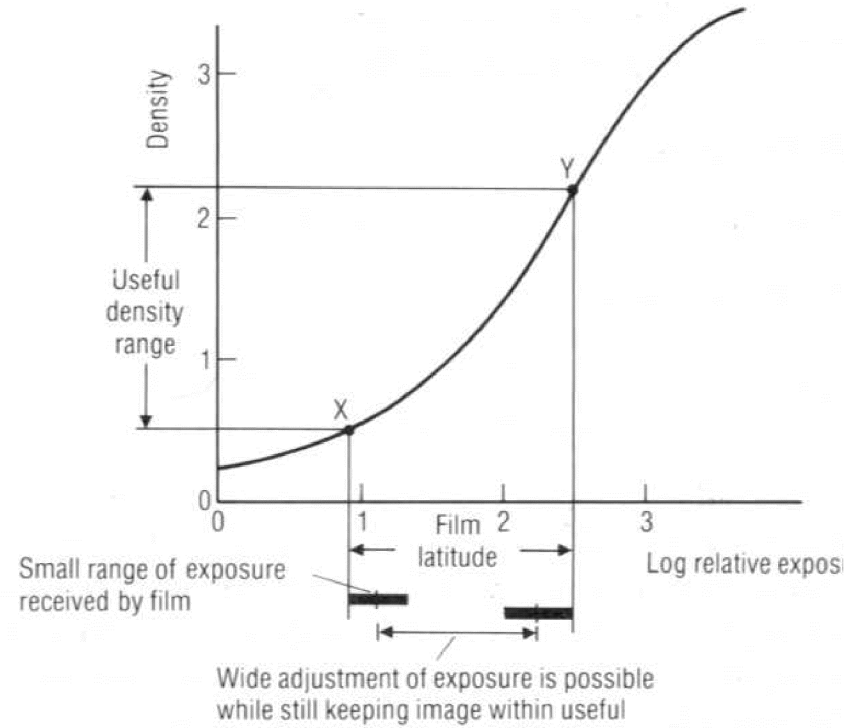
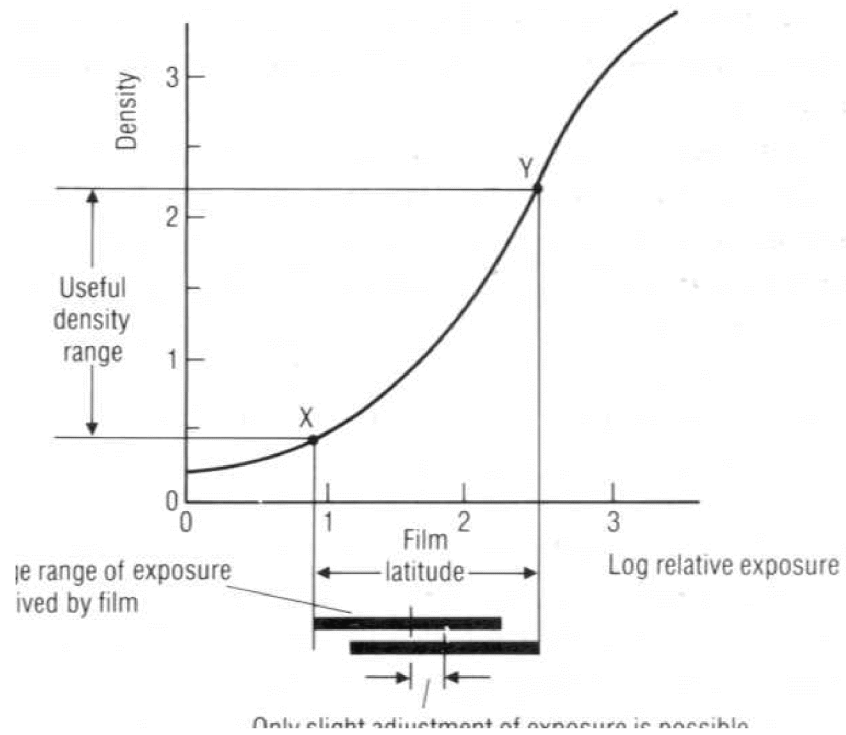


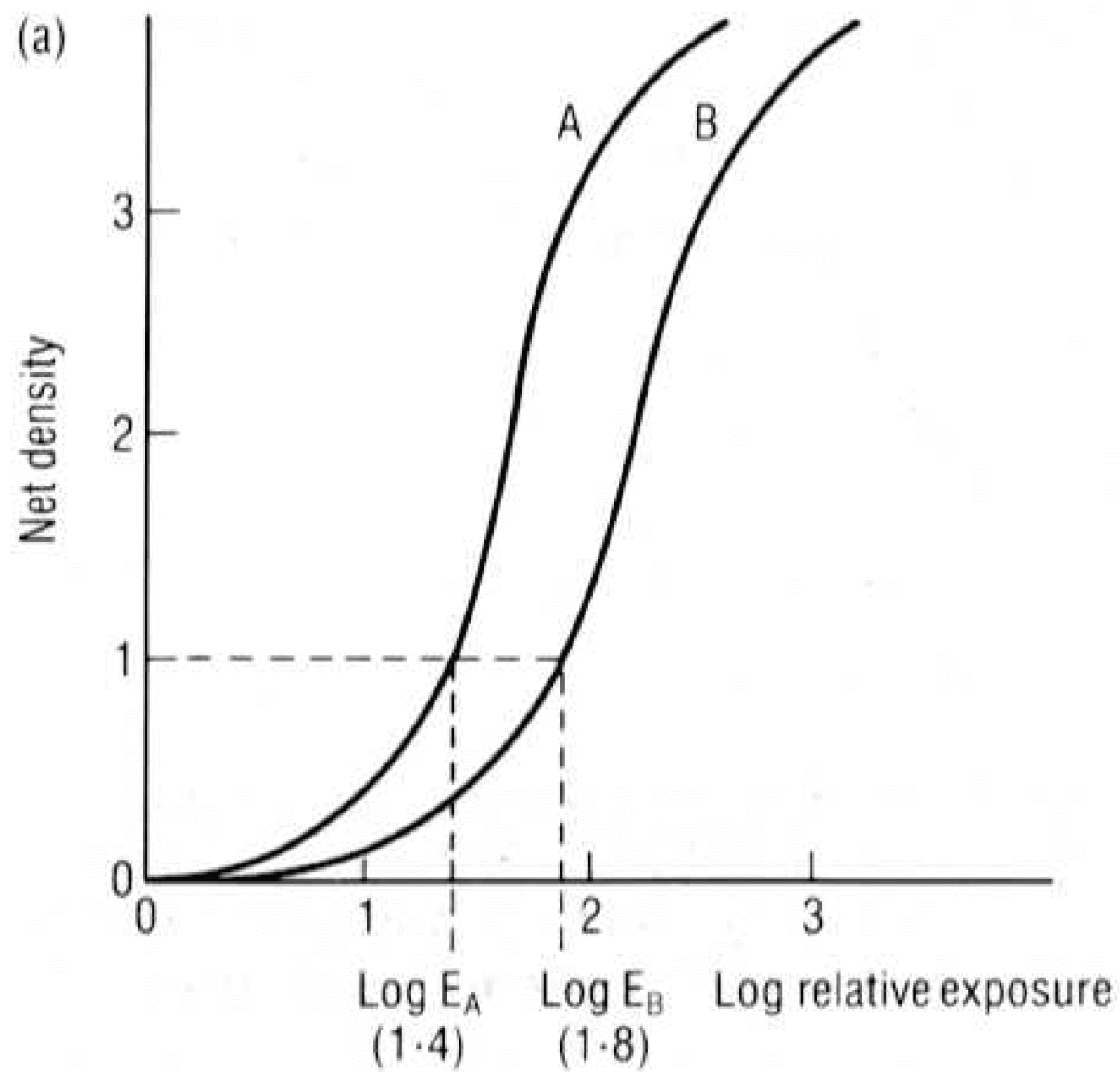
(b)

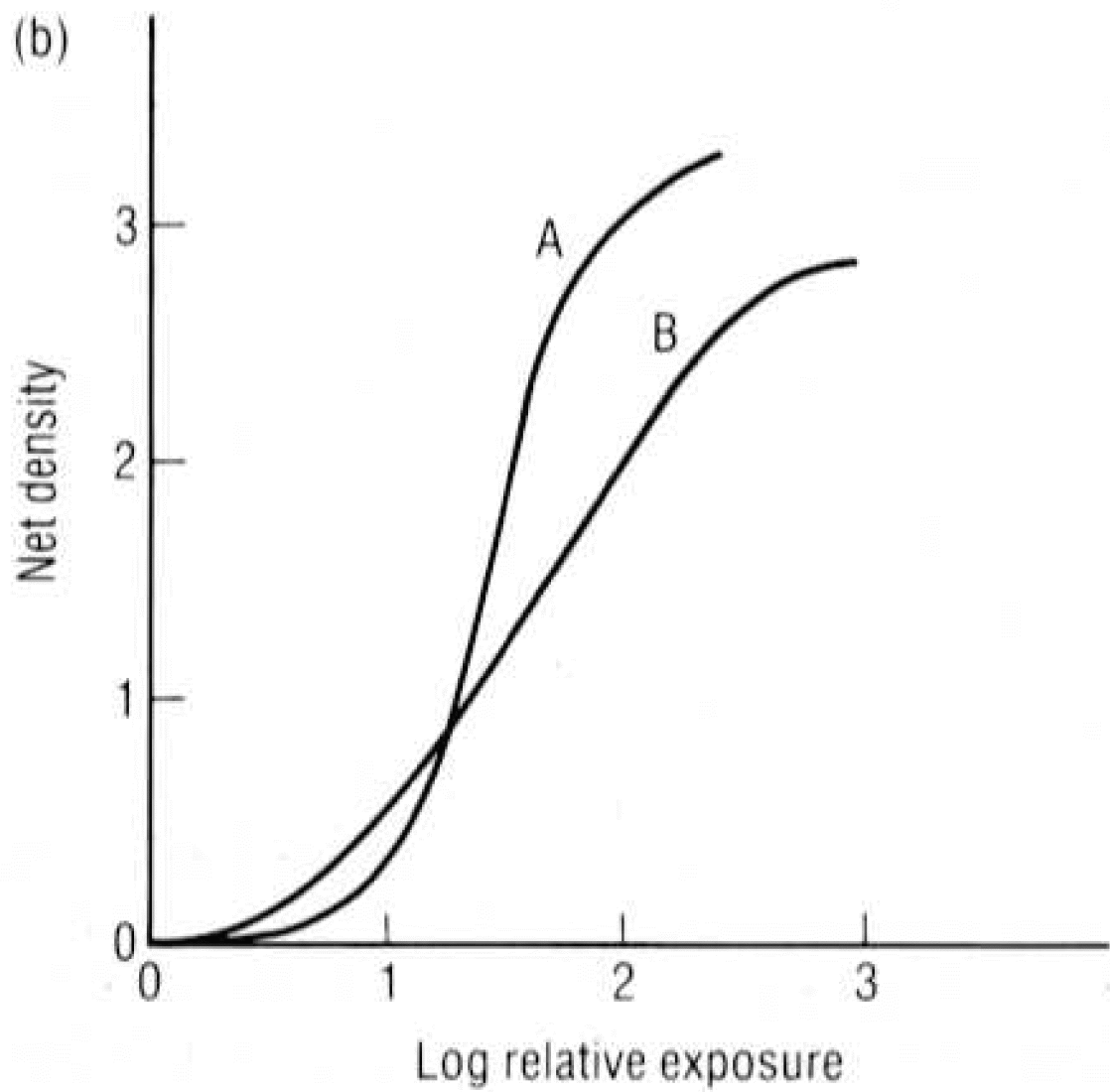


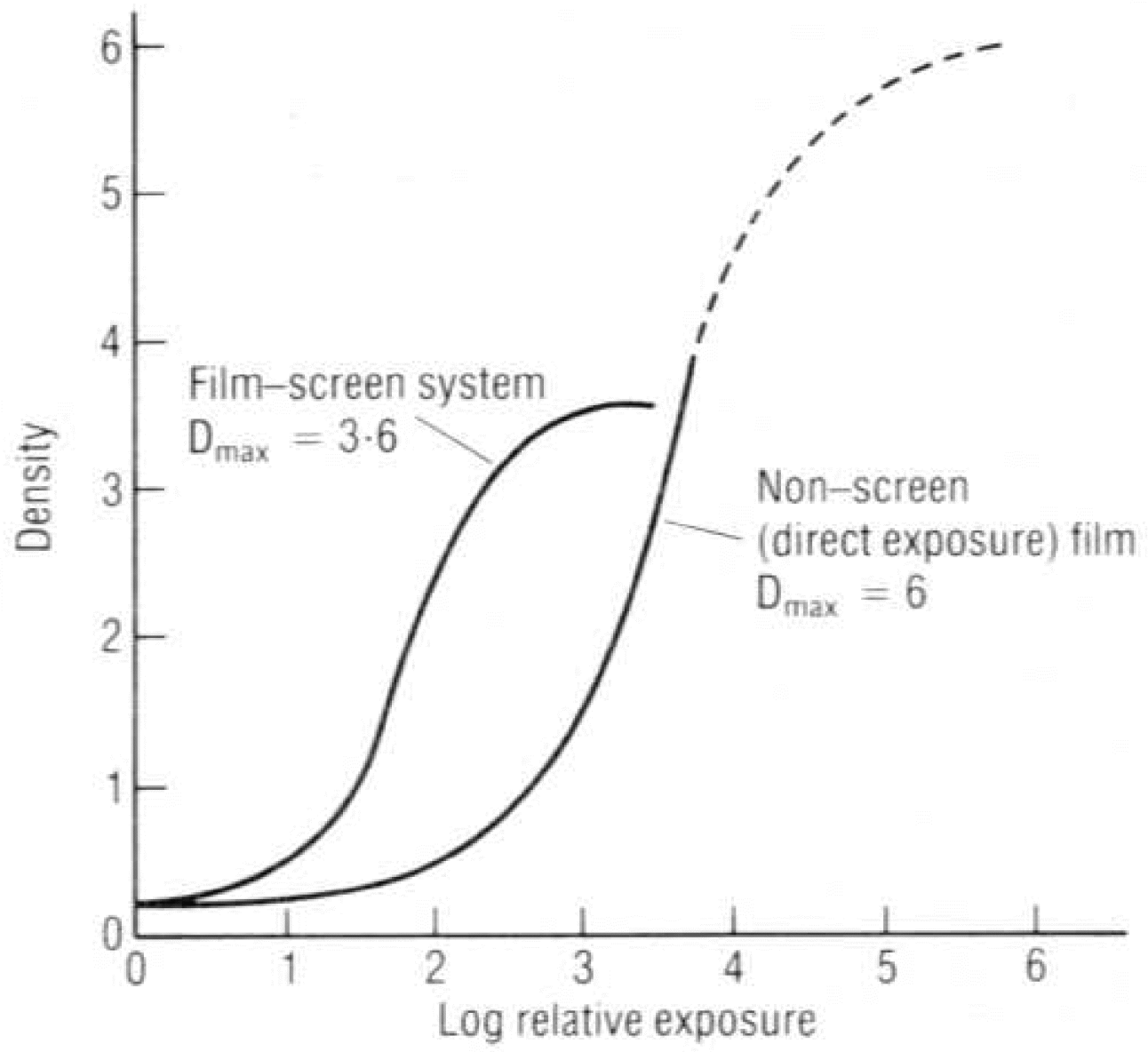


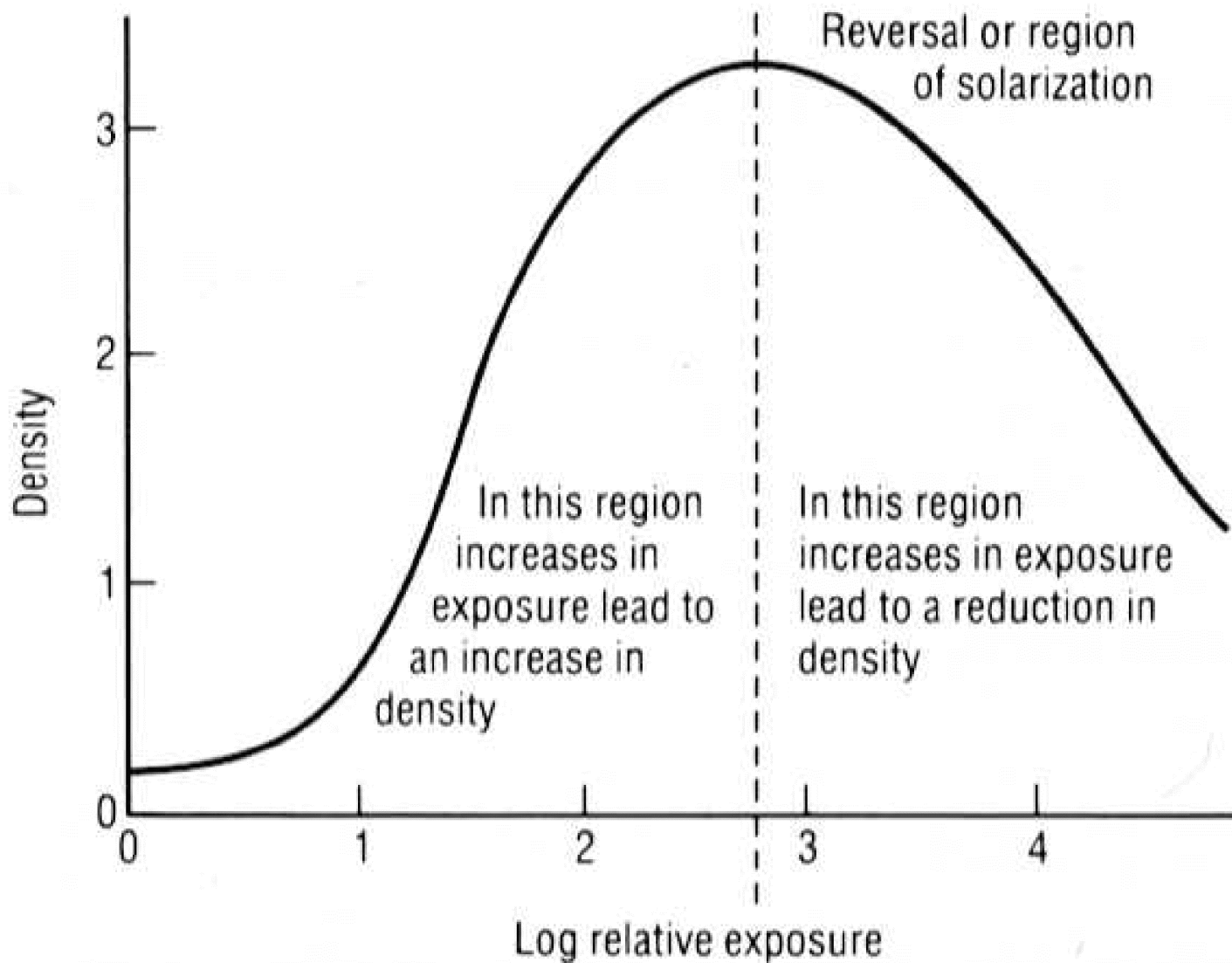












References

- 1- John Ball, Tony Price, "Chesneys' Radiographic Imaging" latest edition.