

Study Guide: Refraction & Lenses

I. Refraction

- **Definition:** Bending of light as it passes from one medium to another.
- **Causes:** Change in the speed of light due to the change in the medium's refractive index.
- **Snell's Law:**
 - $n_1 \sin(\theta_1) = n_2 \sin(\theta_2)$
 - n_1 : Refractive index of the first medium.
 - θ_1 : Angle of incidence.
 - n_2 : Refractive index of the second medium.
 - θ_2 : Angle of refraction.
- **Refractive Index (n):**
 - Ratio of the speed of light in a vacuum (c) to the speed of light in a medium (v): $n = c/v$.
 - Higher refractive index = slower speed of light in that medium.
 - Refractive index of vacuum = 1.
- **Critical Angle:**
 - The angle of incidence for which the angle of refraction is 90 degrees.
 - $\sin(\theta_c) = n_1/n_2$ (where $n_2 > n_1$).
- **Total Internal Reflection (TIR):**
 - Occurs when light travels from a higher refractive index medium to a lower refractive index medium at an angle of incidence greater than the critical angle.
 - Applications: Optical fibers, prisms, diamonds.

II. Lenses

- **Converging (Convex) Lenses:**
 - Thicker in the middle, thinner at the edges.
 - Converge light rays to a focal point.
 - Can form real or virtual images.
- **Diverging (Concave) Lenses:**
 - Thinner in the middle, thicker at the edges.
 - Diverge light rays.
 - Always form virtual, upright, and diminished images.
- **Focal Length (f):**
 - Distance from the lens to the focal point.
 - Positive for converging lenses, negative for diverging lenses.
- **Lens Formula:**
 - $\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$
 - f : Focal length.
 - v : Image distance.
 - u : Object distance.

Refraction And Lenses Study Guide Answer Key

M Carnoy



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1 to avoid cross threading stab pipe in a smooth controlled fashion ensuring the pipe is vertical when doing so continue to support and stabilise the pipe throughout the stabbing and make up operation 2 upon commencement of initial rotation use low rpm 5 rpm or below in order to ensure the pipe has not cross threaded during stabbing 3

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btc has a square thread with a flat root and crest a runout design and five buttress threads per inch each thread type is suited for a specific well condition stc is a good choice for shorter length casing applications that do not involve high axial loads or bending

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the two steps are identified as 1 the 75 percent shoulder width method 2 the mismatched outside diameter method the two methods are fully described in annex i 6 2 3 other considerations table 3 table a 3 have bevel diameters that cover a range from a suggested minimum od to a maximum od the tables also contain a reference id

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inspection inspection criteria for all api connections is as outlined in api rp 5a5 ensure the complete thread area has no tears gouges or raised metal black crested threads within the complete thread area must not exceed 25 of the circumference of two 2 threads complete thread length is indicated in api rp 5b1

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