



# Physics for University Students; Mechanics, Sound and Light Volume 1

By Henry Smith Carhart

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Excerpt: .reflected wave-front. Draw AA to the point of tangency with the first circle. Then AA' is symmetrical with respect to A A' ; and since ABB' A is a parallelogram, the triangle AA' B is equal to ABB' . Therefore, since the triangles AA' B and ABB' are both equal to AA' B , they are equal to each other, and the angles BAB' and A' B A are equal to each other. But the former is the angle of incidence, since the lines BA and B' A are perpendicular respectively to BB' and nB' , and the angle BB' n is the angle of incidence. In the same way it can be shown that the angle A' B A is equal to nB' r, the angle of reflection. The angle of incidence, therefore, equals the angle of reflection. The former...

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