

III. Since it has been shewn that gases occluded in such substances as carbon contribute to the secondary radiation excited at the surface of these substances by α rays, it follows that the procedure adopted in this investigation constitutes a new method of studying the phenomena of occlusion.

IV. The results of the experiments described in this paper also go to shew that with a metal like brass the amount of a gas retained in its surface when it is placed in a vacuum is less at the temperature of liquid air than at ordinary room temperature.

In conclusion, I desire to thank Professor McLennan for the kindly interest he has shewn throughout the course of this research.