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X-Ray Diffraction Study of Heat-Treated Graphitized and Ungraphitized Carbon

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Abstract: Heat treatment of graphitized and ungraphitized carbon samples was carried out in air and argon atmosphere from ambient temperature to 700°C. The changes in degree of amorphousness, mean crystallite size and interlayer separations were studied employing x-ray diffraction. The results revealed an increase in crystallinity when graphitized carbon was heated to 100 ^{o}C and above. This enhanced degree of arrangement is indicative of the removal of residual impurities entrapped during the production processes. In