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# **Fourier Transforms Xray Diffraction**

**Shih-Lin Chang** 

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determination of the nature proportion and distribution of structural defects in microcrystallized lamellar systems are of utmost importance not only to experimentalists but also to theoreticians Mathematical formalism indispensable for such analyses is well illustrated by various examples allowing this method to be easily adopted and even to be applied to other solids with lamellar or pseudo lamellar structures The Use of Fourier Transforms in the Solution of X-ray **Diffraction Problems** C. A. Taylor, 1951 **Phase Transformation in Metals** Nestor Perez.2024-12-20 This new edition retains its class tested explanation of the physics of phase transformation and associated constraints from a metallurgical materials science point of view and adds an enhanced treatment of the underlying theoretical concepts with greater clarification The new edition continues its examination of crystallography mass transport by diffusion thermodynamics heat transfer and related temperature gradients thermal deformation and even fracture mechanics The work presented emphasizes solidification and related analytical models based on heat transfer This corresponds with the most fundamental physical event of continuous evolution of latent heat of fusion for directional or non directional liquid to solid phase transformation at a specific interface with a certain geometrical shape such as planar or curved front Dr Perez introduces mathematical and engineering approximation schemes for describing the phase transformation mainly during solidification of pure metals and alloys Giving clear definitions and explanations of theoretical concepts and full detail of derivation of formulae this interdisciplinary volume is ideal for graduate and upper level undergraduate students in applied science and professionals in the metal making and surface reconstruction industries Introduction to Holography Vincent Toal, 2011-09-28 Over the course of its 60 year history holography has enabled new insights into the nature of light and has contributed to innovative applications With more than 300 illustrations this practical guide explains how to use holographic

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