



Collective Modes in an Inhomogeneous Electron Gas (Classic Reprint) (Paperback)

By Joyce Newman

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Collective Modes in an Inhomogeneous Electron Gas VI. The Solution for a Dense Electron Gas in an External Potential - Method I; 1. The Solution Expressed in Terms of a Green s Function; 2. Evaluation of the Green s Function; VII. The Solution for a Dense Electron Gas in an External Potential - Method II; 1. An Approximation for the Modified Interaction for a Slowly Varying External Potential; 2. A Sample Term of the Solution Expressed as a Many Dimensional Integral; 3. A Variational Principle is Introduced to Simplify the Integration; 4. The Sample Term of the Solution is Reduced to a Two Dimensional Integral; 5. The Complete General Solution Expressed as a Two Dimensional Integral; 6. This Method Applied to a Uniform Electron Gas - The Solution for a Uniform Electron Gas Expressed as a Two Dimensional Integral; 7. The Limit of the General Solution when the External Potential Goes to Zero; 8. a. The Remaining Integrations for the Uniform Gas Approximated by the Method of Steepest Descent; b. The Error Introduced by this...



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