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Optical constants of CuGa₅Se₈ crystals

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Spectral dependence of the real $\epsilon_1(\omega)$ and imaginary $\epsilon_2(\omega)$ parts of the complex dielectric function, complex refractive index, absorption coefficient, and normal-incidence reflectivity of CuGa₅Se₈ crystals with slightly different Cu contents are modeled using **Adachi's** model for interband transitions. The results are in good agreement with the experimental data over the entire range of photon energies. The model parameters are determined using the simulated annealing algorithm.

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Article Outline

- I. INTRODUCTION
- II. EXPERIMENTAL METHODS
- III. THEORETICAL MODEL
- IV. RESULTS AND DISCUSSIONS
- V. CONCLUSIONS

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