

ANISOTROPIC POWER DIAGRAMS: OPTIMIZATION AND APPLICATIONS

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The problem of fitting anisotropic power diagram models to polycrystalline microstructures has drawn considerable attention in recent years. Fitting such models to data entails solving high-dimensional optimization problems. I will present several of these optimization problems in my talk, focusing on algorithmic approaches for solving them. I will also discuss other related applications, for instance, I will show how such approaches can be used to segment grain images.