Properties of Continuous and Discrete Electrostatic Charge Distributions

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Abstract

The exact form of the charge distribution on toner or carrier particles is a subject of some importance due to the effect of this distribution on forces between these particles and adjacent surfaces. The properties of some simple discrete and continuous charge distributions adjacent a conductive surface are calculated.

Biography

Dr. Eric Stelter works on electrographic development and related technology at Eastman Kodak Company, where he is a Senior Scientist in Advanced Development for the Graphic Communications Group. He has been granted more than 35 patents in this field. He began his career at Kodak after receiving his Ph.D. in physics from the University of Illinois. He is an active member of IS&T, the American Physical Society, and the American Association for the Advancement of Science.