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2.24 a) Find the electric field on the z-axis produced by an annular ring of uniform surface charge density ρ_s in free space. The ring occupies the region $z=0$, $a \leq \rho \leq b$, $0 \leq \phi < 2\pi$ in cylindrical coordinates. b) From your part a) result obtain the field of an infinite uniform sheet charge by taking appropriate limits.

Electromagnetics and Applications with OpenCourseWare Preface ix
 2019-11-27
 Electromagnetics Volume 1 by Steven W. Ellingson is a 238 page peer reviewed open educational resource intended for electrical engineering students in the third year of a bachelor of science degree program. It is intended as a primary textbook for a one semester first course in undergraduate engineering electromagnetics. This course explores electromagnetic phenomena in modern applications including wireless and optical communications, circuits, computer interconnects and peripherals, microwave communications and radar, antennas, sensors, microelectromechanical systems and power generation and transmission.

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