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# Random Media

**scattering of electromagnetic waves in random media** - random media may in turn be categorized into two modeling techniques as well: 1) continuous, and 2) discrete random medium techniques. in the continuous case, the random medium is modeled as an inhomogeneous medium with a random permittivity. basically, it is assumed that the medium permittivity  $\epsilon(x,y,z)$  is a random process whose **lecture notes. waves in random media** - random media are introduced in chapter four, which is devoted to perturbation analyses of low frequency waves in low frequency random media. the rest of the notes concerns the analysis of high frequency waves in high frequency media, which means that both the typical **unusual resonators: plasmonics, metamaterials, and random ...** - unusual resonators: plasmonics, metamaterials, and random media ... and ordinary media (hereafter, the vacuum) lie on the same side of the normal to the interface. this property implies that a flat lhm slab can act as a lens forming a 3d image of the object, as illustrated in fig. 1. **lasing in random media - yale school of engineering ...** - feedback, also called incoherent random lasers,(2) random lasers with coherent (or resonant) feedback, also called coherent random lasers. this paper summarizes the research works on both types of random laser, with an emphasis on our recent experimental study of random lasers with coherent feedback. **an efficient numerical method for acoustic wave scattering ...** - analyze the random helmholtz problem by deriving some wavenumber-explicit solution estimates. parameter and analyze its finite modes approximations. **reconstructing random media. ii. three-dimensional media ...** - reconstructing random media. ii. three-dimensional media from two-dimensional cuts ... media, the two-point probability function depends only on the magnitude of the separation  $r$  between the two points, and therefore can be expressed simply as  $s_2(r)$ . for **radiation propagation in random media from positive to ...** - radiation propagation in random media: from positive to negative correlations in high-frequency fluctuations anthony b. davis, mark b. mineev-weinstein, a jet propulsion laboratory, california institute of technology, pasadena, ca 91109, usa **rendering discrete random media using precomputed ...** - continuous and discrete random media and introduce a framework for describing light transport in discrete random media using precomputed scattering solutions. 3.1. continuous and discrete random media the radiative transport equation [ish78] is frequently used to model light propagation through scattering media. in its c the eurographics association 2007. **wave propagation and scattering in random media and rough ...** - media, and composite materials. these fluctuations affect communications through these media, and the identification and remote-sensing of these media and of objects inside the random media. in recent years, there has been a surging interest in wave propagation and scattering in random media. this is **optimal beam forming for laser beam propagation through ...** - this dissertation, "optimal beam forming for laser beam propagation through random media," is hereby approved in partial fulfillment of the requirements for the degree of doctor of philosophy in the field of electrical and computer engineering. department: electrical and computer engineering signatures: dissertation advisor timothy j. schulz ... **5 proceedings of the technical workshop \* on radar ...** - random media is the first born approximation; the conditions for the validity of this theory have been investigated by salpeter and treiman. several different sources reviewed at the workshop suggest that these salpeter-trieman conditions may be unnecessarily restrictive for the purposes of scattering studies where agreement **percolation, statistical topography, and transport in ...** - percolation, statistical topography, and transport in random media m. b. isichenko institute for fusion studies, the university of texas at austin, austin, texas 78712 and kurchatov institute of atomic energy, 129182 moscow, russia a review of classical percolation theory is presented, with an emphasis on novel applications to statistical topography, turbulent diffusion, and heterogeneous media. **chord-distribution functions of three-dimensional random ...** - ite media is obtained by modeling the internal interface of the microstructure as the isosurface ~or level cut! of a correlated gaussian random field(r) @11-15#.

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