

# Numerical Methods For Metamaterial Design Author Kenneth Diest Aug 2013

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### Numerical Methods For Metamaterial Design

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the recent advances on dynamical homogenization methods [11, 14, 16, 45, 50, 51, 52] Such methods share the idea that a periodic in nite-size metamaterial can be replaced by a homogenized continuum, mimicking its response without accounting for all the microstructures' details This leads to an important

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design of the parts such that global behavior is governed by local mechanisms We describe the design method-ology, production process, numerical modeling, and experimental characterization of metamaterial behaviors This approach benefits from incremental assembly, which eliminates scale limitations, best-practice manufacturing for

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sampling methods, including far-filed sampling [22], phase-less sampling [23], phase domain sampling [24], and random beam sampling [13], [25], [26] In particular, the paper [27] extended the above antenna-only diagnoses to the joint diagnosis of antenna, phase shifter, and RF chain of hybrid beamforming (HBF) system