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this thesis proposes novel designs of phononic crystal plates phps allowing ultra wide controllability frequency ranges of guided waves at low frequencies with promising structural and tunability characteristics it reports on topology optimization of bi material layered 1d phps allowing maximized relative bandgap width rbw at target filling fractions and demonstrates multiscale functionality of gradient phps it also introduces a multi objective topology optimization method for 2d porous phps allowing both maximized rbw and in plane stiffness and addresses the critical role of considering stiffness in designing porous phps the multi objective topology optimization method is then expanded for designing 2d porous phps with deformation induced tunability a variety of innovative designs are introduced which their maximized broadband rbw is enhanced by is degraded by or is insensitive to external finite deformation not only does this book address the challenges of new topology optimization methods for computational design of phononic crystals yet it demonstrated the suitability and applicability of the topological designs by experimental validation furthermore it offers a comprehensive review of the existing optimization based approaches for the design of finite non periodic acoustic metamaterial structures acoustic metamaterial lattice structures and acoustic metamaterials under perfect periodicity this book covers the fundamental principles new theories and methodologies and potential applications of hybrid intelligent networks chapters focus on hybrid neural networks and networked multi agent networks including their communication control and optimization synthesis this text also provides a succinct but useful guideline for designing neural network based hybrid artificial intelligence for brain inspired computation systems and applications in the internet of things artificial intelligence has developed into a deep research field targeting robots with more brain inspired perception learning decision making abilities etc this text devoted to a tutorial on hybrid intelligent networks that have been identified in nature and engineering especially in the brain modeled by hybrid dynamical systems and complex networks and have shown potential application to brain inspired intelligence included in this text are impulsive neural networks neurodynamics multiagent networks hybrid dynamics analysis collective dynamics as well as hybrid communication control and optimization methods graduate students who are interested in artificial intelligence and hybrid intelligence as well as professors and graduate students who are interested in neural networks and multiagent networks will find this textbook a valuable resource ai engineers and consultants who are working in wireless communications and networking will want to buy this book also professional and academic institutions in universities and mobile vehicle companies and engineers and managers who concern humans in the loop of iot will also be interested in this book texts documents and extracts chiefly from mss in the bodleian and other oxford libraries texts documents and extracts chiefly from mss in the bodleian and other oxford libraries

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this book covers the fundamental principles new theories and methodologies and potential applications of hybrid intelligent networks chapters focus on hybrid neural networks and networked multi agent networks including their communication control and optimization synthesis this text also provides a succinct but useful guideline for designing neural network based hybrid artificial intelligence for brain inspired computation systems and applications in the internet of things artificial intelligence has developed into a deep research field targeting robots with more brain inspired perception learning decision making abilities etc this text devoted to a tutorial on hybrid intelligent networks that have been identified in nature and engineering especially in the brain modeled by hybrid dynamical systems and complex networks and have shown potential application to brain inspired intelligence included in this text are impulsive neural networks neurodynamics multiagent networks hybrid dynamics analysis collective dynamics as well as hybrid communication control and optimization methods graduate students who are interested in artificial intelligence and hybrid intelligence as well as professors and graduate students who are interested in neural networks and multiagent networks will find this textbook a valuable resource ai engineers and consultants who are working in wireless communications and networking will want to buy this book also professional and academic institutions in universities and mobile vehicle companies and engineers and managers who concern humans in the loop of iot will also be interested in this book



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