

RTG Lecture Series

Analysis of dynamic flows in networks

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Schedule: MTWTF-5:30PM, January 27-29, 2020 Location: Clements Hall 126

Lecture 1 Miscible flows the graph wave equation

description of an

array of inductances and capacities, of fluid flow in a network of ducts and of a system of masses and springs. The structure of the graph influences strongly the dynamics which is naturally described using the basis of the eigenvectors. Special nodes of the graph where an eigenvector has zero component play