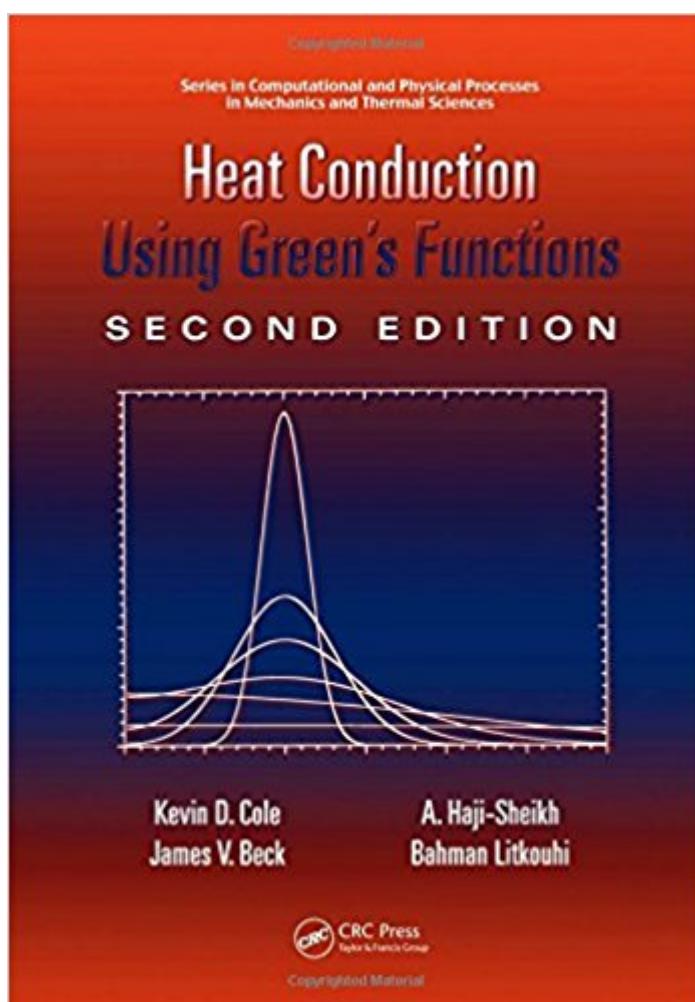


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Heat Conduction Using Green's Functions, 2nd Edition (Series In Computational Methods And Physical Processes In Mechanics And Thermal Sciences)





Synopsis

Since its publication more than 15 years ago, Heat Conduction Using Green's Functions has become the consummate heat conduction treatise from the perspective of Green's functions and the newly revised Second Edition is poised to take its place. Based on the authors' own research and classroom experience with the material, this book organizes the solution of heat conduction and diffusion problems through the use of Green's functions, making these valuable principles more accessible. As in the first edition, this book applies extensive tables of Green's functions and related integrals, and all chapters have been updated and revised for the second edition, many extensively. Details how to access the accompanying Green's Function Library site, a useful web-searchable collection of GFs based on the appendices in this book. The book reflects the authors' conviction that although Green's functions were discovered in the nineteenth century, they remain directly relevant to 21st-century engineers and scientists. It chronicles the authors' continued search for new GFs and novel ways to apply them to heat conduction. New features of this latest edition:

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I did not know how powerful green's function is before reading this book. One can solve any type of conduction problem with green's function 3 times easily. Another good thing is appendix. Here, you will get a complete list of green,s function for all geometry and boundary condition.

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