



# The Diffusion Handbook: Applied Solutions for Engineers

*R.K. Michael Thambynayagam*

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## **PRACTICAL SOLUTIONS TO DIFFUSION-RELATED PROBLEMS**

***The Diffusion Handbook: Applied Solutions for Engineers* is the 2011 recipient of the R.R. Hawkins Award, the top prize of the Association of American Publishers' PROSE Awards, the highest recognitions in the world of professional and scholarly publishing. The book is also the winner of the 2011 PROSE Award for Excellence in Physical Sciences & Mathematics and the Engineering & Technology category award.**

*The Diffusion Handbook* provides more than 1,000 ready-made solutions to boundary-value problems associated with Dirichlet, Neumann, and Robin boundary conditions. The book also offers variations, including:

- Subdivided systems where the properties of each continuum are uniform but discontinuous at the interface
- Solutions involving boundary conditions of the mixed type, where the function is prescribed over part of the boundary and its normal derivative over the remaining part
- Problems that involve space- and time-dependent boundary conditions

All semi-analytic solutions presented in this practical resource are accompanied by prescriptions for numerical computation. The diffusion coefficient and the initial and boundary conditions used in this book apply to fluid flow in a porous medium. All solutions can be equally applied to problems in heat conduction and mass transfer.

### **Coverage includes:**

- Integral transforms and their inversion formulae
- Infinite and semi-infinite continua
- Bounded continuum
- Infinite and semi-infinite lamella
- Rectangle
- Quadrant layer and octant layer
- Cuboid
- Infinite and semi-infinite cylindrical continua
- Bounded cylindrical continuum
- Wedge-shaped infinite and semi-infinite continua
- Wedge-shaped bounded continuum
- Wedge

*"The book will become an invaluable component of every institutional and research center library.....it would be highly unlikely that such a book would ever be written or published again" -Frederick Dylla, American Institute of Physics.*

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