

LIST OF PUBLICATIONS (January 2025)

Professor Renato Machado Cotta, PhD

BOOKS

1. R.M. Cotta, **CALPAK - Computational Laboratory in Heat Transfer**, Núcleo de Publicações, COPPE/UFRJ, 1988 (in Portuguese).
2. R.M. Cotta, **Integral Transforms in Computational Heat and Fluid Flow**, CRC Press, Boca Raton, USA, 1993. ISBN: 0849386659; eBook ISBN 9781003069065; doi: 10.1201/9781003069065
3. R.M. Cotta & M.D. Mikhailov, **Heat Conduction: Lumped Analysis, Integral Transforms, Symbolic Computation**, Wiley-Interscience, N.Y., 1997. ISBN: 0471956481
4. R.M. Cotta, **The Integral Transform Method in Thermal-Fluid Sciences and Engineering**, Begell House Inc., N.Y., 1998. ISBN: 1567001203
5. R.M. Cotta, L.S.B. Alves, and M.D. Mikhailov, **Applied Numerical Analysis with Mathematica**, MTC/WRI, Editora E-papers, 2001. ISBN: 858792222X
6. H.R.B. Orlande, O. Fudym, D. Maillet, and R.M. Cotta, Eds., **Thermal Measurements and Inverse Techniques**, CRC Press, 2011. ISBN: 978-1-439-84555-4; doi: 10.1201/b10918
7. R.M. Cotta, D.C. Knupp, and C.P. Naveira-Cotta, **Analytical Heat and Fluid Flow in Microchannels and Microsystems**, Mechanical Eng. Series, Springer-Verlag, 2016. ISBN: 978-3-319-23311-6; doi: 10.1007/978-3-319-23312-3
8. M. Rebay, S. Kakaç, and R.M. Cotta, Eds., **Microscale and Nanoscale Convective Heat Transfer: Concepts, Analysis, and Applications**, CRC Press, Boca Raton, FL, 2016. ISBN: 978-1-498-73630-5; doi: 10.1201/b19261
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2. Cotta, R.M., and N.C. Roberty, "Temperature distribution, porosity migration and formation of the central void in cylindrical fuel rods", **IAEA/INIS**, International Atomic Energy Agency, vol.14, no.7, Reference #14742814, 29p, Report PEN 117, Programa de Engenharia Nuclear, COPPE/UFRJ, January 1982. https://inis.iaea.org/collection/NCLCollectionStore/_Public/14/742/14742814.pdf?r=1
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