

DOTT. STEFANO SAVINO

ELENCO DELLE PUBBLICAZIONI SCIENTIFICHE E DIDATTICHE (ottobre 2016)

Elenco degli articoli pubblicati in riviste scientifiche internazionali

1. Nonino C, Savino S (2016). *Numerical investigation on the performance of cross-flow micro heat exchangers*. INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol. 26, iss. 3/4, p. 745-766
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4. Del Giudice S, Savino S, Nonino C (2013). *Temperature dependent viscosity and thermal conductivity effects on the laminar forced convection in straight microchannels*. JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol. 135, p. 101003-1-101003-8
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6. Nonino C, Del Giudice S, Savino S (2010). *Temperature-dependent viscosity and viscous dissipation effects in microchannel flows with uniform wall heat flux*. HEAT TRANSFER ENGINEERING, vol. 31, p. 682-691
7. Comini G, Savino S (2009). *Accuracy of one-dimensional design procedures for finned-tube heat exchangers*. APPLIED THERMAL ENGINEERING, vol. 29, p. 2863-2869
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9. Nonino C, Savino S, Del Giudice S (2009). *Numerical assessment of the mixing performance of different serpentine microchannels*. HEAT TRANSFER ENGINEERING, vol. 30, p. 101-112
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11. Comini G, Nonino C, Savino S (2008). *Modeling of conjugate conduction and heat and mass convection in tube-fin exchangers*. INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol. 18, p. 954-968
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13. Comini G, Savino S (2007). *Latent and sensible heat transfer in air-cooling applications*. INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol. 17, p. 608-627
14. Comini G, Nonino C, Savino S (2007). *Modeling of coupled conduction and convection in moist air cooling*. NUMERICAL HEAT TRANSFER PART A-APPLICATIONS, vol. 51, p. 23-37
15. Comini G, Nonino C, Savino S (2007). *Numerical evaluation of fin performance under dehumidifying conditions*. JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol. 129, p. 1395-1402
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17. Comini G, Savino S, Magriotis N, Muratori S (2007). *Thermal modeling of vacuum web coating*. APPLIED THERMAL ENGINEERING, vol. 27, p. 611-618
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23. Comini G, Nonino C, Savino S (2003). *Effect of space ratio and corrugation angle on convection enhancement in wavy channels*. INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol. 13, p. 500-519
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Elenco delle pubblicazioni in atti di congressi di rilevanza internazionale

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3. Nonino C, Savino S, Del Giudice S (2015). *Annular ducts: Nusselt number correlations for laminar flows of liquids with temperature dependent properties*. In: Proceedings of the 11th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2015), Kruger National Park, South Africa, 20-23 luglio 2015
4. Nonino C, Savino S, Del Giudice S (2015). *An efficient procedure for the analysis of flow maldistribution in cross-flow micro heat exchangers*. In: Proceedings of ICHMT - 6th International Symposium on Advances in Computational Heat Transfer (CHT-15). New Brunswick, NJ, USA, 25-29 maggio 2015
5. Dal Magro F, Meneghetti A, Nardin G, Savino S. (2014). *Enhancing energy recovery in the steel industry by off-gas variability smoothing*. In: Digital Proceedings of the 9th Conference on Sustainable Development of Energy, Water and Environment Systems. Venezia-Istanbul, 20-27 settembre 2014
6. Nonino C, Savino S, Del Giudice S (2014). *FEM Analysis of Conjugate Conduction-Convection Heat Transfer in Microdevices*. In: Computational Methods for Thermal Problems. Giannini Editore, ISBN: 9788874317271, Bled, Slovenia, 2-4 giugno 2014
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10. Nonino C, Savino S, Del Giudice S (2010). *An efficient finite element procedure for the analysis of cross-flow micro heat exchangers*. In: 8th International Conference on Nanochannels, Microchannels, and Minichannels. Montreal, Canada, 1-5 agosto, p. 1-9, ISBN: 978-0-7918-3880-8
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12. Savino S, Comini G (2009). *Coupled conduction and convection in fin arrays for electronic cooling*. In: First International Conference on Computational Methods for Thermal Problems. p. 80-83, ISBN: 9788874314591, Naples, 8-10 September

13. Nonino C, Savino S, Del Giudice S (2008). *conjugate forced convection and heat conduction in micro heat exchangers: a hybrid approach*. In: 1st European Conference on Microfluidics. Bologna, Italy, 10-12 dicembre 2008
14. Comini G, Savino S (2008). *Effect of temperature non-uniformity at the base of a fin*. In: 5th European Thermal-Sciences Conference EUROTHERM08. ISBN: 978-90-386-1274-4, Eindhoven, 18-22 Maggio
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21. Nonino C, Del Giudice S, Savino S (2006). *Entrance, viscous dissipation and temperature dependent viscosity effects in microchannel flows with convective boundary condition*. In: Proceedings of the 4th International Conference on Nanochannels, Microchannels and Minichannels. Limerick, Ireland, 19-21 giugno 2006
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23. Comini G, Nonino C, Savino S (2005). *Convective heat and mass transfer under dehumidifying conditions*. In: Progress in Computational Heat and Mass Transfer. Paris, 17-20 maggio 2005, vol. II, p. 711-722
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26. Comini G, D'agaro P, Savino S (2005). *Numerical simulation of the effects of intrinsic three-dimensionality on forced convection heat transfer*. In: EUROTHERM Seminar 82 - Numerical Heat Transfer 2005. p. 95-110, Gliwice - Cracow, September 13-16, 2005
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7. Savino S, Del Giudice S, Nonino C (2007). *Laminar forced convection in the entrance region of straight ducts with uniform wall heat flux: effects of temperature dependent viscosity*. In: Atti del XXV Congresso Nazionale UIT sulla Trasmissione del Calore. p. 593-598, Trieste (Italy), 18-20 giugno, 2007
8. Del Giudice S, Savino S, Nonino C (2006). *Applicability of the viscosity ratio method to the prediction of heat transfer and pressure drop characteristics of simultaneously developing laminar flow in straight ducts*. In: Atti del XXIII Congresso Nazionale UIT sulla Trasmissione del Calore. p. 519-524, Napoli, 21-23 giugno 2006
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10. Nonino C, Del Giudice S, Savino S (2005). *Influenza della dipendenza della viscosità dalla temperatura nella convezione forzata laminare in condotti rettilinei a simmetria assiale*. In: Atti del XXIII Congresso Nazionale UIT sulla Trasmissione del Calore. p. 323-328, Parma (Italy), 20-22 giugno, 2005
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Elenco dei testi a carattere didattico

1. Comini G., Savino S. (2014). *Fondamenti termodinamici dell'energetica, II edizione*. p. 1-417, Padova: SGE - Servizi Grafici Editoriali, ISBN: 978-88-89884-27-0
2. Comini G, Savino S (2013). *La captazione dell'energia solare*. p. 1-106, Udine: CISM - International Center for Mechanical Sciences, ISBN: 978-88-85137-45-5
Scaricabile gratuitamente alla pagina <http://books.google.it/books?id=IPszfpUCpdQC>
3. Comini G, Croce G, Savino S (2011). *Energetica generale*. p. 1-586, Padova: SGE - Servizi Grafici Editoriali, ISBN: 978-88-89884-20-1
4. Comini G, Savino S (2011). *Fondamenti termodinamici dell'energetica*. p. 1-412, Padova: SGE - Servizi Grafici Editoriali, ISBN: 978-88-89884-17-1