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2019

Management and 1-Year Outcomes of Patients With Newly Diagnosed Atrial Fibrillation and Chronic Kidney Disease: Results From the Prospective GARFIELD - AF Registry.

Goto S, Angchaisuksiri P, Bassand J-P, Camm AJ, Dominguez H, Illingworth L, Gibbs H, Goldhaber SZ, Goto S, Jing Z-C, Haas S, Kayani G, Koretsune Y, Lim TW, Oh S, Sawhney JPS, Turpie AGG, van Eickels M, Verheugt FWA, Kakkar AK and GARFIELD; AF Investigators. *J Am Heart Assoc vol.* 8, (3).

2018

Film and dropwise condensation.

Rose JW. Handbook of Thermal Science and Engineering 2031-2074.

Professor Issam Mudawar on his 60th birthday.

Bernardin J, Chiaramonte F, Dhir V, Galloway J, Goodson K, Incropera F, Kabov O, Kaviany M, Kazimi M, Khusid B, Kim J, Kim SM, Lee J, Minkowycz WJ, Qu W, Rose J, Sammakia B, Stephan P, Vafai K and Wen CD. *International Journal of Heat and Mass Transfer vol.* 89,.

2017

Condensation in microchannels: detailed comparisons of annular laminar flow theory with measurements. WANG HS and Rose JW. *Journal of Heat Transfer: Transactions of The Asme.American Society of Mechanical Engineers (Asme)*.

2016

Professor Arcot R. Balakrishnan on his 65th birthday.

Minkowycz WJ, Basak T, Ravi R, Jayanti S, Das SK, Roy S, Chhabra RP, Biswas G, Dutta P, Rose JW, Bejan A and Taine J. *International Journal of Heat and Mass Transfer vol. 94*, 498-499.

2015

Professor Ichiro Tanasawa (1936-2014) In Memoriam.

Rose JW, Nishio S, Shirakashi R and Utaka Y. International Journal of Heat and Mass Transfer vol. 85, 916-917.

Personal reflections on fifty years of condensation heat transfer research.

Rose JW. Journal of Enhanced Heat Transfer vol. 22, (2) 89-120.

2014

Selected Papers Presented at the ECI 8th International Conference on Boiling and Condensation Heat Transfer.

Saha SK, Di Marco P, Buongiorno J and Rose JW. Heat Transfer Engineering vol. 35, (5) 415-419.

Meshless inverse method to determine temperature and heat flux at boundaries for 2D steady-state heat conduction problems.

Yu GX, Sun J, Wang HS, Wen PH and Rose JW. Experimental Thermal and Fluid Science vol. 52, 156-163. Elsevier/Scince Direct.

DROPWISE CONDENSATION ON MICRO- AND NANOSTRUCTURED SURFACES.

Enright R, Miljkovic N, Alvarado JL, Kim K and Rose JW. Nanoscale and Microscale Thermophysical Engineering vol. 18, (3) 223-250.

2013

Pressure Drop During Condensation in Microchannels.

Wang HS, Sun J and Rose JW. Asme Journal of Heat and Mass Transfer vol. 135, (9). Asme International.

Effects of vapor velocity and pressure on Marangoni condensation of steam-ethanol mixtures on a horizontal tube.

Ali H, Wang HS, Briggs A and Rose JW. Journal of Heat Transfer: Transactions of The Asme vol. 135, (3).

Pressure drop during condensation in microchannels.

Wang HS, Sun J and Rose JW. Journal of Heat Transfer: Transactions of The Asme vol. 135, (9). American Society of Mechanical Engineers.

Heat Transfer and Pressure Drop during Laminar Annular Flow Condensation in Micro-Channels.

WANG HS and Rose JW. Experimental Heat Transfer vol. 26, (2-3) 247-265. Thome JR. Taylor and Francis.

2012

Multi-scale study of liquid flow in micro/nanochannels: Effects of surface wettability and topology. Sun J, He YL, Tao WQ, Rose JW and Wang HS. *Microfluidics and Nanofluidics vol.* 12, (6) 991-1008.

Effect of vapour velocity on condensate retention between fins during condensation on low-finned tubes. Fitzgerald CL, Briggs A, Rose JW and Wang HS. *International Journal of Heat and Mass Transfer vol.* 55, (4) 1412-1418.

Multi-scale study of liquid flow in micro/nanochannels: Effects of surface wettability and topology. Sun J, He YL, Tao WQ, Rose JW and Wang HS. *Microfluidics and Nanofluidics vol.* 12, (6) 991-1008.

2011

Theory of heat transfer during condensation in microchannels.

Wang HS and Rose JW. International Journal of Heat and Mass Transfer vol. 54, (11-12) 2525-2534.

2010

Effect of Vapour Velocity on Condensation of Ethylene Glycol on Horizontal Integral Fin Tubes: Heat Transfer and Retention Angle Measurements.

Fitzgerald CL, Briggs A, Wang H and Rose JW. Asme International.

2009

Microchannel condensation: Correlations and theory.

Su Q, Yu GX, Wang HS and Rose JW. International Journal of Refrigeration vol. 32, (6) 1149-1152.

Film condensation in horizontal circular section microchannels.

WANG HS and Rose JW. International Journal of Engineering Systems Modelling and Simulation vol. 1, (No 2/3) 115-121. Not known .

2008

An inverse method to determine boundary temperature and heat flux for a 2D steady state heat conduction problem.

Yu G, Wang H, Wen P and Rose JW. *Proceedings of The Asme Design Engineering Technical Conference vol. 3*, (PARTS A AND B) 1087-1093.

2007

Marangoni condensation of steam-ethanol mixtures on a horizontal tube.

Murase T, Wang HS and Rose JW. International Journal of Heat and Mass Transfer vol. 50, (19-20) 3774-3779.

2006

Film condensation in horizontal microchannels: Effect of channel shape{star, open}{star, open}A preliminary version of this paper was presented at ICMM05: Third International Conference on Microchannels and Minichannels, held at University of Toronto, June 13-15, organized by S.G. Kandlikar and M. Kawaji, CD-ROM Proceedings, ISBN: 0-7918-3758-0, ASME, New York.

Wang HS and Rose JW. International Journal of Thermal Sciences vol. 45, (12) 1205-1212.

Enhanced condensation heat transfer.

Rose JW. Jsme Int J B-Fluid T vol. 49, (3) 626-635.

Effect of inundation for condensation of steam on smooth and enhanced condenser tubes.

Murase T, Wang HS and Rose JW. International Journal of Heat and Mass Transfer vol. 49, (17-18) 3180-3189.

Condensation from gas-vapour mixtures in small non-circular tubes.

Krishnaswamy S, Wang HS and Rose JW. International Journal of Heat and Mass Transfer vol. 49, (9-10) 1731-1737.

2005

Condensation on a horizontal wire-wrapped tube.

Murase T, Briggs A, Wang HS and Rose JW. Journal of Heat Transfer vol. 127, (11) 1207-1213.

A theory of film condensation in horizontal noncircular section microchannels.

Wang HS and Rose JW. Journal of Heat Transfer vol. 127, (10) 1096-1105.

Film condensation in horizontal microchannels: Effect of channel shape.

Wang H and Rose JW. Proceedings of The 3rd International Conference On Microchannels and Minichannels, 2005 vol. PART A, 729-735.

2004

Prediction of effective friction factors for single-phase flow in horizontal microfin tubes.

Wang HS and Rose JW. Int J Refrig vol. 27, (8) 904-913.

Heat transfer and pressure drop characteristics for condensation of R113 in a vertical micro-finned tube with wire insert.

Ma X, Briggs A and Rose JW. International Communications in Heat and Mass Transfer vol. 31, (5) 619-627.

Effect of interphase matter transfer on condensation on low-finned tubes - a theoretical investigation.

Wang HS and Rose JW. Int J Heat Mass Tran vol. 47, (1) 179-184.

2003

Heat Transfer Measurements for Condensation of Steam on a Horizontal Wire-Wrapped Tube.

Briggs A, Wang HS, Murase T and Rose JW. Journal of Enhanced Heat Transfer vol. 10, (4) 355-362.

Condensation of refrigerants in horizontal microfin tubes: comparison of correlations for frictional pressure drop.

WANG HS and Rose JW. International Journal of Refrigeration vol. 26, (4) 461-472.

2002

An analysis of film condensation on a horizontal wire-wrapped tube.

Rose JW. Chemical Engineering Research and Design vol. 80, (3) 290-294.

Dropwise condensation theory and experiment: a review.

Rose JW. P I Mech Eng a-J Pow vol. 216, (A2) 115-128.

2000

Accurate approximate equations for intensive sub-sonic evaporation.

Rose JW. International Journal of Heat and Mass Transfer vol. 43, (20) 3869-3875.

Advances in dropwise condensation heat transfer: Chinese research.

Ma XH, Rose JW, Xu DQ, Lin JF and Wang BX. Chemical Engineering Journal vol. 78, (2-3) 87-93.

Heat transfer and pressure drop measurements for in-tube condensation of cfc-113 using microfin tubes and wire inserts.

Briggs A, Kelemenis C and Rose JW. Experimental Heat Transfer vol. 13, (3) 163-181.

1999

Condensation heat transfer.

Rose JW. Heat and Mass Transfer vol. 35, (6) 479-485.

An evaluation of models for condensation heat transfer on low-finned tubes.

Briggs A and Rose JW. Journal of Enhanced Heat Transfer vol. 6, (1) 51-60.

1998

Condensation heat transfer fundamentals.

Rose JW. Chemical Engineering Research and Design vol. 76, (2) 143-152.

1996

Effect of two-dimensional conduction in the condensate film on laminar film condensation on a horizontal tube with variable wall temperature.

Zhou YQ and Rose JW. International Journal of Heat and Mass Transfer vol. 39, (15) 3187-3191.

1995

FORCED-CONVECTION FILM CONDENSATION ON A HORIZONTAL TUBE - INFLUENCE OF VAPOR BOUNDARY-LAYER SEPARATION.

MEMORY SB and ROSE JW. Journal of Heat Transfer-Transactions of The Asme vol. 117, (2) 529-533.

CONDENSATION PERFORMANCE OF SOME COMMERCIAL INTEGRAL FIN TUBES WITH STEAM AND CFC113.

BRIGGS A and ROSE JW. Exp Heat Transfer vol. 8, (2) 131-143.

Condensation of steam and R113 on a bank of horizontal tubes in the presence of a noncondensing gas. Abdullah R, Cooper JR, Briggs A and Rose JW. *Experimental Thermal and Fluid Science vol.* 10, (3) 298-306.

1994

Effect of variable viscosity in the presence of variable wall temperature on condensation on a horizontal tube. Memory SB and Rose JW. *International Journal of Heat and Mass Transfer vol. 37*, (15) 2321-2326.

An approximate equation for the vapour-side heat-transfer coefficient for condensation on low-finned tubes. Rose JW. *International Journal of Heat and Mass Transfer vol. 37*, (5) 865-875.

Enhancement of condensation heat transfer on integral-fin tubes using radiused fin-root fillets.

Wen XL, Briggs A and Rose JW. Journal of Enhanced Heat Transfer vol. 1, (2) 211-217.

Effect of fin efficiency on a model for condensation heat transfer on a horizontal, integral-fin tube.

Briggs A and Rose JW. International Journal of Heat and Mass Transfer vol. 37, (SUPPL. 1) 457-463.

1993

Forced convection film condensation on a horizontal tube-effect of surface temperature variation.

Memory SB, Lee WC and Rose JW. International Journal of Heat and Mass Transfer vol. 36, (6) 1671-1676.

1992

FORCED-CONVECTION CONDENSATION OF STEAM ON A SMALL BANK OF HORIZONTAL TUBES.

MICHAEL AG, LEE WC and ROSE JW. Journal of Heat Transfer-Transactions of The Asme vol. 114, (3) 708-713.

ACCURATE HEAT-TRANSFER MEASUREMENTS FOR CONDENSATION ON HORIZONTAL, INTEGRAL-FIN TUBES.

BRIGGS A, WEN XL and ROSE JW. J Heat Trans-T Asme vol. 114, (3) 719-726.

1991

Free convection laminar film condensation on a horizontal tube with variable wall temperature.

Memory SB and Rose JW. International Journal of Heat and Mass Transfer vol. 34, (11) 2775-2778.

1990

AN EXPERIMENTAL-STUDY OF R-113 FILM CONDENSATION ON HORIZONTAL INTEGRAL-FIN TURES

MARTO PJ, ZEBROWSKI D, WANNIARACHCHI AS and ROSE JW. Journal of Heat Transfer-Transactions of The Asme vol. 112, (3) 758-767.

1989

A New Interpolation Formula for Forced-Convection Condensation on a Horizontal Surface.

Rose JW. Journal of Heat Transfer-Transactions of The Asme vol. 111, (1-4) 818-819.

Forced Convection Condensation on a Horizontal Tube-Experiments With Vertical Downflow of Steam.

Michael AG, Rose JW and Daniels LC. Journal of Heat Transfer-Transactions of The Asme vol. 111, (1-4) 792-797.

Forced convection condensation on a horizontal tube- experiments with vertical downflow of steam.

Michael AG, Rose JW and Daniels LC. Journal of Heat Transfer vol. 111, (3) 792-797.

A New Interpolation formula for forced-convection condensation on a horizontal surface.

Rose JW. Journal of Heat Transfer vol. 111, (3) 818-819.

1988

CONDENSATION OF ETHYLENE-GLYCOL ON HORIZONTAL INTEGRAL-FIN TUBES.

MASUDA H and ROSE JW. Journal of Heat Transfer-Transactions of The Asme vol. 110, (4A) 1019-1022.

FUNDAMENTALS OF CONDENSATION HEAT-TRANSFER - LAMINAR-FILM CONDENSATION.

ROSE JW. Jsme International Journal Series II-Fluids Engineering Heat Transfer Power Combustion Thermophysical Properties vol. 31, (3) 357-375.

Some aspects of condensation heat transfer theory.

Rose JW. International Communications in Heat and Mass Transfer vol. 15, (4) 449-473.

1987

THE USE OF ORGANIC COATINGS TO PROMOTE DROPWISE CONDENSATION OF STEAM.

HOLDEN KM, WANNIARACHCHI AS, MARTO PJ, BOONE DH and ROSE JW. *Journal of Heat Transfer-Transactions of The Asme vol.* 109, (3) 768-774.

ON INTERPHASE MATTER TRANSFER, THE CONDENSATION COEFFICIENT AND DROPWISE CONDENSATION.

ROSE JW. Proceedings of The Royal Society of London Series a-Mathematical Physical and Engineering Sciences vol. 411, (1841) 305-311.

STATIC CONFIGURATION OF LIQUID-FILMS ON HORIZONTAL TUBES WITH LOW RADIAL FINS - IMPLICATIONS FOR CONDENSATION HEAT-TRANSFER.

MASUDA H and ROSE JW. Proceedings of The Royal Society of London Series a-Mathematical Physical and Engineering Sciences vol. 410, (1838) 125-&.

1986

HORIZONTAL PLAIN AND LOW-FINNED CONDENSER TUBES - EFFECT OF FIN SPACING AND DRAINAGE STRIPS ON HEAT-TRANSFER AND CONDENSATE RETENTION.

YAU KK, COOPER JR and ROSE JW. Journal of Heat Transfer-Transactions of The Asme vol. 108, (4) 946-950.

FILM CONDENSATION OF STEAM ON HORIZONTAL FINNED TUBES - EFFECT OF FIN SPACING.

WANNIARACHCHI AS, MARTO PJ and ROSE JW. Journal of Heat Transfer-Transactions of The Asme vol. 108, (4) 960-966.

1985

Effect of fin spacing on the performance of horizontal integral-fin condenser tubes.

Yau KK, Cooper JR and Rose JW. Journal of Heat Transfer vol. 107, (2) 377-383.

1984

Comparisons between experiment and theory for dropwise condensation of mercury.

Niknejad J and Rose JW. International Journal of Heat and Mass Transfer vol. 27, (12) 2253-2257.

Forced convection film condensation on a horizontal tube with and without non-condensing gases.

Lee WC and Rose JW. International Journal of Heat and Mass Transfer vol. 27, (4) 519-528.

Effect of pressure gradient in forced convection film condensation on a horizontal tube.

Rose JW. International Journal of Heat and Mass Transfer vol. 27, (1) 39-47.

FILM CONDENSATION OF REFRIGERANT-113 AND ETHANEDIOL ON A HORIZONTAL TUBE - EFFECT OF VAPOR VELOCITY.

LEE WC, RAHBAR S and ROSE JW. Journal of Heat Transfer-Transactions of The Asme vol. 106, (3) 524-530.

1983

Drop-to-filmwise condensation transition: Heat transfer measurements for ethanediol.

Stylianou SA and Rose JW. International Journal of Heat and Mass Transfer vol. 26, (5) 747-760.

1981

Dropwise condensation theory.

Rose JW. International Journal of Heat and Mass Transfer vol. 24, (2) 191-194.

INTERPHASE MATTER TRANSFER - AN EXPERIMENTAL-STUDY OF CONDENSATION OF MERCURY.

NIKNEJAD J and ROSE JW. Proceedings of The Royal Society of London Series a-Mathematical Physical and Engineering Sciences vol. 378, (1774) 305-327.

1980

Approximate equations for forced-convection condensation in the presence of a non-condensing gas on a flat plate and horizontal tube.

Rose JW. International Journal of Heat and Mass Transfer vol. 23, (4) 539-546.

DROPWISE CONDENSATION ON SURFACES HAVING DIFFERENT THERMAL-CONDUCTIVITIES.

STYLIANOU SA and ROSE JW. Journal of Heat Transfer-Transactions of The Asme vol. 102, (3) 477-482.

1979

Boundary-layer flow with transpiration on an isothermal flat plate.

Rose JW. International Journal of Heat and Mass Transfer vol. 22, (8) 1243-1244.

Boundary-layer flow on a flat plate.

Rose JW. International Journal of Heat and Mass Transfer vol. 22, (6).

1978

Effect of condenser tube material on heat transfer during dropwise condensation of steam.

Rose JW. International Journal of Heat and Mass Transfer vol. 21, (7) 835-840.

The effect of surface thermal conductivity on dropwise condensation heat transfer.

Rose JW. International Journal of Heat and Mass Transfer vol. 21, (1) 80-81.

1977

Heat-transfer measurements during dropwise condensation of mercury.

Necmi S and Rose JW. International Journal of Heat and Mass Transfer vol. 20, (8) 877-881.

1976

Further aspects of dropwise condensation theory.

Rose JW. International Journal of Heat and Mass Transfer vol. 19, (12) 1363-1370.

Film condensation of mercury.

Necmi S and Rose JW. International Journal of Heat and Mass Transfer vol. 19, (11) 1245-1256.

1975

2ND VIRIAL-COEFFICIENT OF ORDINARY WATER SUBSTANCE - NEW CORRELATION.

LEFEVRE EJ, NIGHTINGALE MR and ROSE JW. Journal of Mechanical Engineering Science vol. 17, (5) 243-251.

1973

Free convection film condensation of steam in the presence of non-condensing gases.

Al-Diwany HK and Rose JW. International Journal of Heat and Mass Transfer vol. 16, (7) 1359-1369.

Dropwise condensation-The distribution of drop sizes.

Rose JW and Glicksman LR. International Journal of Heat and Mass Transfer vol. 16, (2) 411-425.

Dropwise condensation-The effect of thermal properties of the condenser material.

Aksan SN and Rose JW. International Journal of Heat and Mass Transfer vol. 16, (2) 461-467.

1972

Dropwise condensation of mercury.

Rose JW. International Journal of Heat and Mass Transfer vol. 15, (7) 1431-1434.

1970

Condensation of liquid metals.

Rose JW. International Journal of Heat and Mass Transfer vol. 13, (4) 749-750.

1969

Dropwise condensation-the effect of surface inclination.

Citakoglu E and Rose JW. International Journal of Heat and Mass Transfer vol. 12, (5).

Condensation of a vapour in the presence of a non-condensing gas.

Rose JW. International Journal of Heat and Mass Transfer vol. 12, (2) 233-237.

1968

$\label{lem:condensation-some} \textbf{Dropwise condensation-some factors influencing the validity of heat-transfer measurements.}$

Citakoglu E and Rose JW. International Journal of Heat and Mass Transfer vol. 11, (3) 523-537.

1967

On the mechanism of dropwise condensation.

Rose JW. International Journal of Heat and Mass Transfer vol. 10, (6).

1965

Comments on the paper tetrafluoroethylene promoted dropwise condensation by edwards and doolittle.

Le Fevre EJ and Rose JW. International Journal of Heat and Mass Transfer vol. 8, (8).

An experimental study of heat transfer by dropwise condensation.

Le Fevre EJ and Rose JW. International Journal of Heat and Mass Transfer vol. 8, (8) 1117-1133.

1964

Heat-transfer measurements during dropwise condensation of steam.

Le Fevre EJ and Rose JW. International Journal of Heat and Mass Transfer vol. 7, (2) 272-273.