[1] \_ [B Zohuri](https://scholar.google.com/citations?user=OINh-3EAAAAJ&hl=en&oi=sra) “[Compact heat exchangers](https://www.researchgate.net/profile/Bahman-Zohuri/publication/355261366_Compact_Heat_Exchangers/links/616989c2039ba268444349ff/Compact-Heat-Exchangers.pdf)” 2017 - researchgate.net/

[2] \_ Yao Li, Haiqing Si, Jingxuan Qiu, Yingying Shen, Peihong Zhang and Hongyin Jia “CFD-based structure optimization of plate bundle in plate-fin heat exchanger considering flow and heat transfer performance ”[International Journal of Chemical Reactor Engineering](https://www.researchgate.net/journal/International-Journal-of-Chemical-Reactor-Engineering-1542-6580?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InB1YmxpY2F0aW9uIiwicGFnZSI6InB1YmxpY2F0aW9uIn19) , Int. J. Chem. React. Eng. 2021; 19(5): 499–513

[3] \_ The Standard Of Brazed Aluminium Plate-fin Heat Exchanger Manufacturers’ Association , Alpema , 2000.

[4] \_ <https://www.alfalaval.my/products/heat-transfer/plate-heat-exchangers/gasketed-plate-and-frame-heat-exchangers/heat-exchanger/how-plate-heat-exchanger-work/>

[5] \_ Handbook of Heat Transfer by Warren M. Rohsenow, James P. Hartnett, and Young I. Cho (2018).

[6] \_ Heng Xiao, Paola Cinnella, “Quantification of Model Uncertainty in RANS Simulations: A Review” arXiv:submit/2412918 [physics.flu-dyn] 27 Sep 2018

|  |  |
| --- | --- |
| [7]- | Won-Seak Kim, Pham Troung Thang , Beam-Keun Kim,"CFD simulation of plate-fin cross-counter flow compact heat exchanger”, Journal of Mechanical Science and Technology , volume 38 , pages 696-678, (2024) |

[8] \_ Dr.Marzena lwaniszyn , Dr.Mateusz Korpys , Computational Fluid Dynamics Modelling of Fluid Flow and Heat and Mass Transfer,  **closed (30 September 2022)** | Viewed by 7912

[10] \_ Kumar, R., & Patel, S. (2023). Nanoparticle-Based Fluids for Heat Transfer Enhancement: Experimental and Numerical Studies. Applied Thermal Engineering, 211, 118571.

[11]\_Shengchen Li , Zixin Deng , Jian Liu , Defu Liu “Multi-Objective Optimization of Plate-Fin Heat Exchangers via Non-Dominated Sequencing Genetic Algorithm (NSGA-II) ”Appl. Sci. **2022**, 12(22), 11792;<https://doi.org/10.3390/app122211792>

[11]-Ying Guan, Liquan Wang and Hongjiang Cui “Optimization Analysis of Thermodynamic Characteristics of Serrated Plate-Fin Heat Exchanger \”School of Locomotive and Rolling Stock Engineering, Dalian Jiaotong University, Dalian 116028, China , Sensors 2023, 23(8), 4158; <https://doi.org/10.3390/s23084158>

[12]-Bashir S. Mekki∗, Joshua Langer, Stephen Lynch “Genetic algorithm based topology optimization of heat exchanger fins used in aerospace applications”International Journal of Heat and Mass Transfer, [Volume 170](https://www.sciencedirect.com/journal/international-journal-of-heat-and-mass-transfer/vol/170/suppl/C), May 2021, 121002

[13] - Kim, M.; Ha, M.Y.; Min, J.K. “A numerical study on the aero-thermal performance of a slanted-pin-fin cooler under a high-speed-bypass condition”. Int. J. Heat Mass Transf. 2018, 119, 791–812.

[14]-Zhang, Q.; Qin, S.; Ma, R. Simulation and experimental investigation of the wavy fin-and-tube intercooler. Case Stud. Therm. Eng. 2016, 8, 32–40

[15] -Gunantara, N. A review of multi-objective optimization: Methods and its applications. Cogent Eng. **2018**, 5, 1502242. [CrossRef]

[16] - Ning, J.; Wang, X.; Sun, Y.; Zheng, C.; Zhang, S.; Zhao, X.; Liu, C.; Yan, W. Experimental and numerical investigation of additivelymanufactured novel compact plate-fin heat exchanger. Int. J. Heat Mass Transf. **2022**, 190, 122818.

[17] -Raj M. Manglik and Arthur E. Burgles, "Heat Transfer and Pressure Drop Correlations for the Rectangular Offset Strip Fin Compact Heat Exchangers," Experimental Thermal and Fluid Science, vol. 10, pp. 171-180, 1995.

|  |  |
| --- | --- |
| [18]- | Rui Song, Menemeng Cui and Jianjun Liu, "A correlation for heat transfer and flow friction characteristics of the offset strip fin heat exchanger," *International Journal of Heat and Mass Transfer,* vol. 115, pp. 695-705, 2017. |

[19] - Naef A.A. Qasem and Syed M. Zubair, "Generalized air-side friction and heat transfer correlations for wavy-fin compact heat exchangers," International Journal of Refrigeration, 2018.

[20]- H. H. Y. X. Y. C. Jianrui Li, "Two-phase flow boiling characteristics in plate-fin channels at offhsore conditions," Applied Thermal Engineering, vol. 187, 2021.

[20]- W. B. D. X. Chunbao Liu, "Multi-objective shape optimization of a plate-fin heat exchanger using CFD and multi-objective genetic algorithm," International Journal of Heat and Mass Transfer, vol. 111, pp. 65-82, 2017.

[21]- W. L. Tariq amin Khan, "Optimal design of plate-fin heat exchanger by combining multi-objective algorithms," International Journal of Heat and Mass Transfer, vol. 108, pp. 1560-1572, 2017.

[22] -J.W.S.WY.L. Ke Li, "Multi-parameter Optimization of Serrated Fins in Plate-fin Heat Exchanger Based on Fluid-structure Interaction," Applied Thermal Engineering, 2020.

|  |  |
| --- | --- |
| [23] | H. Hajabdollahi, "Multi-objective optimization of plate fin heat exchanger using constructal theory," *International Communications in Heat and Mass Transfer,* vol. 108, 2019. |

|  |  |
| --- | --- |
| [24] | J. W. S. W. Y. L. Huizhu Yang, "Thermal design and optimization of plate-fin heat exchangers based global sensitivity anlaysis and NSGA-II," *Applied Thermal Engineering,* 2018. |

|  |  |
| --- | --- |
| [25] | - R. Niroomanda , M.H. Saidi , S.K. Hannani " A general multi-scale modeling framework for two-phase simulation of multi-stream plate-fin heat exchangers" International Journal of Heat and Mass Transfer 156 (2020) 119730 |
| [26] | - W. M. a. L. A. L. Kays, Compact Heat Exchangers, New York: McGraw-Hill, 1984. |
|  | |  |  | | --- | --- | | [27] | J. W. S. W. Y. L. Ke Li, "Multi-parameter Optimization of Serrated Fins in Plate-fin Heat Exchanger Based on Fluid-structure Interaction," *Applied Thermal Engineering,* 2020. | |
|  |  |
|  | [27] - Kyung Rae Kim, Jae Keun Lee , Hae Do Jeong , Yul Ho Kang and Young Chull Ahn , "Numerical and Experimental Study of Air-to-Air Plate Heat Exchangers with Plain and Offset Strip Fin Shapes," Energies **2020**, 13, 5710; doi:10.3390/en13215710   |  |  | | --- | --- | | [28] | H. L. A. P. Sadik Kakac, Heat Exchnangers; Selection, Rating, and ThermalDesign, Boca Raton: CRC Press, 2012. |  |  |  | | --- | --- | | [29] | - R. Niroomanda , M.H. Saidi , S.K. Hannani " A general multi-scale modeling framework for two-phase simulation of multi-stream plate-fin heat exchangers" International Journal of Heat and Mass Transfer 156 (2020) 119730 | | [30] | - W. M. a. L. A. L. Kays, Compact Heat Exchangers, New York: McGraw-Hill, 1984. |   [31] -[Arne Müller](https://www.researchgate.net/scientific-contributions/Arne-Mueller-2137035547?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InB1YmxpY2F0aW9uIiwicGFnZSI6InB1YmxpY2F0aW9uIn19) , [Anja-Elsa Polzin](https://www.researchgate.net/scientific-contributions/Anja-Elsa-Polzin-2121807821?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InB1YmxpY2F0aW9uIiwicGFnZSI6InB1YmxpY2F0aW9uIn19) , [Stephan Kabelac](https://www.researchgate.net/profile/Stephan-Kabelac?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InB1YmxpY2F0aW9uIiwicGFnZSI6InB1YmxpY2F0aW9uIn19)"Multi-stream Plate-and-Frame Heat Exchangers for Condensation and Evaporation" [Innovative Heat Exchangers](https://link.springer.com/book/10.1007/978-3-319-71641-1) pp 167–187 , [First Online: 31 December 2017](https://link.springer.com/chapter/10.1007/978-3-319-71641-1_5#chapter-info)  [32] Chao Yu , Xiangyao Xue, Kui Shi and Mingzhen Shao” A Three-Dimensional Numerical and Multi-Objective OptimalDesign of Wavy Plate-FinsHeat Exchangers " Processes 2021,9,9. <https://dx.doi.org/10.3390/pr9010009> |