

شجاعی فرد، م. و نورپور هشتروودی، ع.ر. (ترجمه). ۱۳۷۹. مقدمه‌ای بر دینامیک سیالات محاسباتی. ورستیک و مالالاسکرا، دانشگاه علم و صنعت ایران. تهران.

مقیمان، م. (ترجمه). ۱۳۷۷. محاسبات عددی- کامپیوتری انتقال حرارت و حرکت سیال. پتتکار، دانشگاه فردوسی مشهد.

صفری، ع، عباسپور فرد، م.ح.، و طبسی زاده، م. ۱۳۹۵. شبیه سازی یک مبدل حرارتی زمین به هوا به روش دینامیک سیالات محاسباتی. دهمین کنگره ملی مهندسی مکانیک بیوسیستم (ماشین‌های کشاورزی) و مکانیزاسیون ایران، ۹ الی ۱۰ شهریور، دانشگاه فردوسی مشهد.

حیدرزاده، م. ۱۳۹۴. دینامیک سیالات محاسباتی کاربردی با ANSYS Fluent. چاپ اول. انتشارات دانشگاهی کیان، تهران.

غلامی، ع. ۱۳۸۸. بررسی و ارزیابی عوامل موثر بر گرمایش و سرمایش در سامانه مبدل حرارتی زمینی با جریان هوا. پایان نامه دوره‌ی کارشناسی ارشد، دانشگاه فردوسی مشهد.

محمدی مقرب، م. ۱۳۹۰. تاثیر سطح و درصد پوشش گیاهی بر کارایی یک مبدل گرمایی زمینی با جریان هوا در سرمایش و گرمایش گلخانه. پایان نامه دوره‌ی کارشناسی ارشد، دانشگاه فردوسی مشهد.

ملاحسینی، ح.، سیلپور، م. ۱۳۷۰. مدیریت محصولات گلخانه‌ای. چاپ اول. انتشارات آوای مسیح، تهران.

دهقانی سانجج، م. الف. ۱۳۹۳. شبیه سازی عددی با نرم افزار Fluent 6.3. چاپ چهارم. انتشارات ناقوس، تهران.

Abbaspour-Fard, M.H., Gholami, A., and Khojastehpour, M. 2011. Evaluation of an earth-to-air heat exchanger for the north-east of Iran with semi-arid climate. *International Journal of Green Energy*, 8: 499-510.

Al-Ajmi, F., Loveday, D., and Hanby, V.I. 2006. The cooling potential of earth-air heat exchangers for domestic buildings in a desert climate. *Building and Environment*, 41: 235-244.

Amanpreet, S. 2013. Experimental study of Horizontal Ground Heat Exchanger, Department of mechanical engineering. Thapar University.

Badgaiyan, P., and Agrawal, S. 2016. CFD Base Performance Evaluation of Earth-Air Tube Heat Exchanger for Natural Air Conditioning. *Invention Journal of Research Technology in Engineering & Management (IJRTEM)*, 1: 01-05.

- Bakker, R., 1999. The effect of greenhouse construction on future energy use in protected cultivation. *Rapport/Landbouw-Economisch Inst. (Netherlands)*.
- Bansal, V., Misra, R., Agarwal, G.D., and Mathur, J. 2013. Derating Factor new concept for evaluating thermal performance of earth air tunnel heat exchanger: A transient CFD analysis. *Applied Energy*, 102: 418-426.
- Bansal, V., Misra, R., Agarwal, G.D., and Mathur, J. 2013. Transient effect of soil thermal conductivity and duration of operation on performance of Earth Air Tunnel Heat Exchanger. *Applied Energy*, 103: 1-11.
- Bansal, V., Misra, R., Agrawal, G.D., and Mathur, J. 2009. Performance analysis of earth–pipe–air heat exchanger for winter heating. *Energy and Buildings*, 41: 1151-1154.
- Bansal, V., Misra, R., Agrawal, G.D., and Mathur, J. 2010. Performance analysis of earth–pipe–air heat exchanger for summer cooling. *Energy and Buildings*, 42: 645-648.
- Bhutta, M.M.A., Hayat, N., Bashir, M.H., Khan, A.R., Ahmad, K.N., and Khan, S. 2012. CFD applications in various heat exchangers design: A review. *Applied Thermal Engineering*, 32: 1-12.
- Bisoniya, T.S., Kumar, A., and Baredar, P. 2014. Parametric analysis of Earth-air heat exchanger system based on CFD modelling. *Int J Power Renew Energy Syst*, 1: 36-46.
- Bisoniya, T.S., Kumar, A., and Baredar, P. 2015. Energy metrics of earth–air heat exchanger system for hot and dry climatic conditions of India. *Energy and Buildings*, 86: 214-221.
- Cataldi, R., Hodgson, S.F., and Lund, J.W. 1999. Stories from a heated earth: our geothermal heritage. Geothermal Resources Council.
- Chen, J., Xu, F., Tan, D., Shen, Z., Zhang, L., and Ai, Q. 2015. A control method for agricultural greenhouses heating based on computational fluid dynamics and energy prediction model. *Applied Energy*, 141: 106-118.
- Chung, M., Jung, P.-S., and Rangel, R.H. 1999. Semi-analytical solution for heat transfer from a buried pipe with convection on the exposed surface. *International Journal of Heat and Mass Transfer*, 42: 3771-3786.
- Correia, A., Vieira, G., and Ramos, M. 2012. Thermal conductivity and thermal diffusivity of cores from a 26 meter deep borehole drilled in Livingston Island, Maritime Antarctic. *Geomorphology*, 155: 7-11.
- Da Silva Brum, R., Vaz, J., Rocha, L.A.O., dos Santos, E.D., and Isoldi, L.A. 2013. A new computational modeling to predict the behavior of earth-air heat exchangers. *Energy and Buildings*, 64: 395-402.

- De la Torre-Gea, G., Soto-Zarazúa, G.M., López-Crúz, I., Torres-Pacheco, I., and Rico-García, E. 2011. Computational fluid dynamics in greenhouses: A review. *African Journal of Biotechnology*, 10: 17651-17662.
- De Paepe, M., and Janssens, A. 2003. Thermo-hydraulic design of earth-air heat exchangers. *Energy and Buildings*, 35: 389-397.
- Dhaliwal, A.S., Goswami, D., and Das, G. 1985. Heat transfer analysis in environmental control using an underground air tunnel. *Journal of Solar Energy Engineering*, 107: 141-145.
- Dirkse, M.H., van Loon, W.K., van der Walle, T., Speetjens, S.L., and Bot, G.P. 2006. A computational fluid dynamics model for designing heat exchangers based on natural convection. *Biosystems Engineering*, 94: 443-452.
- Elbatawi, I., Mohri, A., and Namba, K. 1998. Utilization of solar energy for heating a greenhouse at nighttime, Proceedings of 26th International Symposium On Agricultural Engineering, Opatija, Croatia, pp. 3-6.
- Flaga-Maryńczyk, A., Schnotale, J., Radon, J., and Was, K. 2014. Experimental measurements and CFD simulation of a ground source heat exchanger operating at a cold climate for a passive house ventilation system. *Energy and Buildings*, 68: 562-570.
- Gan, G. 2015. Impacts of dynamic interactions on the predicted thermal performance of earth-air heat exchangers for preheating, cooling and ventilation of buildings. *International Journal of Low-Carbon Technologies*, ctv029.
- Gaskell, C. 1992. Type II-L supernovae-Standard bombs. *The Astrophysical Journal*, 389: 17-20.
- Ghosal, M., Tiwari, G., Das, D., and Pandey, K. 2005. Modeling and comparative thermal performance of ground air collector and earth air heat exchanger for heating of greenhouse. *Energy and Buildings*, 37: 613-621.
- Ghosal, M., Tiwari, G., and Srivastava, N. 2004. Thermal modeling of a greenhouse with an integrated earth to air heat exchanger: an experimental validation. *Energy and Buildings*, 36: 219-227.
- Heidarinejad, G., Khalajzadeh, V., and Delfani, S. 2010. Performance analysis of a ground-assisted direct evaporative cooling air conditioner. *Building and Environment*, 45: 2421-2429.
- Hollmuller, P. 2003. Analytical characterization of amplitude-dampening and phase-shifting in air/soil heat-exchangers. *International Journal of Heat and Mass Transfer*, 46: 4303-4317.
- Inalli, M. 1998. Design parameters for a solar heating system with an underground cylindrical tank. *Energy*, 23: 1015-1027.
- Jacovides, C., and Mihalakakou, G. 1995. An underground pipe system as an energy source for cooling/heating purposes. *Renewable Energy*, 6: 893-900.

- Jalaluddin, M.A. 2014. Performance investigation of multiple-tube ground heat exchangers for ground-source heat pump. *American Journal of Energy Engineering*, 2: 103-107.
- Kim, K., Yoon, J.Y., Kwon, H.J., Han, J. H., Son, J.E., Nam, S.W., Giacomelli, G.A., and Lee, I.B. 2008. 3-D CFD analysis of relative humidity distribution in greenhouse with a fog cooling system and refrigerative dehumidifiers. *Biosystems Engineering*, 100: 245-255.
- Kumar, R., Ramesh, S., and Kaushik, S. 2003. Performance evaluation and energy conservation potential of earth-air-tunnel system coupled with non-air-conditioned building. *Building and Environment*, 38: 807-813.
- Kusuda, 1975. The effect of ground cover on earth temperature, in: Proc. Conf. on Alternatives in Energy Conservation: The Use of Earth-Covered Buildings, Texas.
- Labs, K. 1979. Underground Building Climate. *Solar Age*, 10: 44-50.
- Li, X., Zhao, J., and Zhou, Q. 2005. Inner heat source model with heat and moisture transfer in soil around the underground heat exchanger. *Applied Thermal Engineering*, 25: 1565-1577.
- Mathur, A., Srivastava, A., Mathur, J., Mathur, S., and Agrawal, G. 2015. Transient effect of soil thermal diffusivity on performance of EATHE system. *Energy Reports*, 1: 17-21.
- Mihalakakou, G., Santamouris, M., and Asimakopoulos, D. 1994. Modelling the thermal performance of earth-to-air heat exchangers. *Solar energy*, 53: 301-305.
- Misra, R., Bansal, V., Agrawal, G.D., Mathur, J., and Aseri, T.K. 2013. CFD analysis based parametric study of derating factor for Earth Air Tunnel Heat Exchanger. *Applied Energy*, 103: 266-277.
- Mogharreb, M.M., Abbaspour-Fard, M.H., Goldani, M., and Emadi, B. 2014. The effect of greenhouse vegetation coverage and area on the performance of an earth-to-air heat exchanger for heating and cooling modes. *International Journal of Sustainable Engineering*, 7: 245-252.
- Molahoseini, H., and Sielispour, M. 2008. Greenhouse crops production management, Avayemasih, Tehran.
- Muehleisen, R.T., 2012. Simple design tools for earth-air heat exchangers. *IBPSA-USA Journal*, 5: 723-730.
- Norton, T., Sun, D.-W., Grant, J., Fallon, R., and Dodd, V. 2007. Applications of computational fluid dynamics (CFD) in the modelling and design of ventilation systems in the agricultural industry: A review. *Bioresource technology*, 98: 2386-2414.
- Omer, A.M. 2008. Ground-source heat pumps systems and applications. *Renewable and sustainable energy reviews*, 12: 344-371.

- Ozgener, O., Ozgener, L., and Tester, J.W. 2013. A practical approach to predict soil temperature variations for geothermal (ground) heat exchangers applications. *International Journal of Heat and Mass Transfer*, 62: 473-480.
- Patankar. 1980. Numerical Heat Transfer and Fluid Flow. Hemisphere Publishing, Washington.
- Peretti, C., Zarrella, A., De Carli, M., and Zecchin, R. 2013. The design and environmental evaluation of earth-to-air heat exchangers (EAHE). A literature review. *Renewable and sustainable energy reviews*, 28: 107-116.
- Pfafferott, J., Walker-Hertkorn, S., and Sanner, B. 2007. Ground cooling: recent progress. *Advances in passive cooling*. London, Earthscan.
- Ramírez-Dávila, L., Xamán, J., Arce, J., Álvarez, G., and Hernández-Pérez, I. 2014. Numerical study of earth-to-air heat exchanger for three different climates. *Energy and Buildings*, 76: 238-248.
- Santamouris, M., Mihalakakou, G., Balaras, C., Lewis, J., Vallindras, M., and Argiriou, A. 1996. Energy conservation in greenhouses with buried pipes. *Energy*, 21: 353-360.
- Schaldach, G., Berger, L., Razilov, I., and Berndt, H. 2000. Computer simulation for fundamental studies and optimisation of ICP spray chambers. *ISAS (Institute of Spectrochemistry and Applied Spectroscopy) Current Research Reports*, Berlin, Germany.
- Sethi, V., and Sharma, S. 2008. Survey and evaluation of heating technologies for worldwide agricultural greenhouse applications. *Solar energy*, 82: 832-859.
- Sobti, J., and Singh, S.K. 2015. Earth-air heat exchanger as a green retrofit for Chandīgarh-a critical review. *Geothermal Energy* 3.
- Stylianou, I.I., Tassou, S., Christodoulides, P., Panayides, I., and Florides, G. 2016. Measurement and analysis of thermal properties of rocks for the compilation of geothermal maps of Cyprus. *Renewable Energy*, 88: 418-429.
- Tzaferis, A., Liparakis, D., Santamouris, M., and Argiriou, A. 1992. Analysis of the accuracy and sensitivity of eight models to predict the performance of earth-to-air heat exchangers. *Energy and Buildings*, 18: 35-43.
- Vaz, J., Sattler, M.A., dos Santos, E.D., and Isoldi, L.A. 2011. Experimental and numerical analysis of an earth-air heat exchanger. *Energy and Buildings*, 43: 2476-2482.
- Versteeg, H.K., and Malalasekera, W. 2007. An introduction to computational fluid dynamics: the finite volume method. Pearson Education.
- Wilcox, D. 2002. Turbulence modeling for CFD [M]. La Canada, California, USA: DCW Industries. Inc.

- Wu, H., Wang, S., and Zhu, D. 2007. Modelling and evaluation of cooling capacity of earth–air–pipe systems. *Energy Conversion and Management*, 48: 1462-1471.
- Yakhot, V., Orszag, S., Thangam, S., Gatski, T., and Speziale, C. 1992. Development of turbulence models for shear flows by a double expansion technique. *Physics of Fluids A: Fluid Dynamics (1989-1993)*, 4: 1510-1520.
- Yi, Y.K., and Feng, N. 2013. Dynamic integration between building energy simulation (BES) and computational fluid dynamics (CFD) simulation for building exterior surface, *Building Simulation*. Springer, pp: 297-308.
- Zhang, J. 2009. Investigation of airflow and heat transfer in earth-to-air heat exchangers. Concordia University.