

บรรณานุกรม

- รุ่งนภา พงศ์สวัสดิ์มานิต. 2535. วิศวกรรมแปรรูปอาหาร: การถนอมอาหาร. ภาควิชาอุตสาหกรรม
เกษตร คณะเทคโนโลยีการเกษตร สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหาร
ลาดกระบัง, กรุงเทพฯ. หน้า 284
- สมชาติ ไสภณรณฤทธิ์. 2540. การอบแห้งเมล็ดพืชและอาหารบางประเภท. พิมพ์ครั้งที่ 7. คณะ
พลังงานและวัสดุ มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี, กรุงเทพฯ. หน้า 338
- สมบัติ ขอวิวัฒนา. 2529. กรรมวิธีการอบแห้ง. ภาควิชาพัฒนาผลิตภัณฑ์ คณะอุตสาหกรรม
เกษตร มหาวิทยาลัยเกษตรศาสตร์, กรุงเทพฯ. หน้า 284
- ผดุงศักดิ์ รัตนเดโช. 2546. การวิเคราะห์กระบวนการอบแห้งในวัสดุพูน (I หลักการเบื้องต้นของ
การถ่ายเทความร้อนและมวลสารในกระบวนการอบแห้งวัสดุพูน). วารสารวิทยาศาสตร์
และเทคโนโลยี (ภาษาไทย) มหาวิทยาลัยธรรมศาสตร์. ฉบับที่ 1 ม.ค. เม.ย 47 หน้า 1-11
- ผดุงศักดิ์ รัตนเดโช. 2547. การวิเคราะห์กระบวนการอบแห้งในวัสดุพูน (II การพาแบบจำลองทาง
คณิตศาสตร์สำหรับวิเคราะห์การถ่ายเทความร้อนและมวลสารในวัสดุพูน). ภาควิชา
วิศวกรรมเครื่องกล คณะวิศวกรรมศาสตร์ มหาวิทยาลัยธรรมศาสตร์ ฉบับที่ 2 พ.ค 47
หน้า 1-14
- Adonis M, Khan, MTE, "Combined Convective and Infrared Drying Model for Food
Applications", IEEE AFRICON, 2004, pp.1049-1052.
- Aoki, K., Hattori, M., Kitamura, M. and Shiraishi, N., 1991, "Characteristics of Heat
Transport in Porous Media with Water Infiltration", ASME/JSME Thermal
Engineering Proceedings, Vol. 4, pp. 303-308.

Berger, D. and Pei, D.C.T., "Drying of Hygroscopic Capillary Porous Solids: Theoretical Approach", *Int. J. Heat and Mass Transfer*, 16, 1973, pp. 293-302.

Benjamin Adu., Lambert Otten., "Microwave Transfer Characteristics of White Beans.", *J. agric. Engng Res.*, 1996, pp. 71-78.

Boukadida, N., S. Ben Nasrallah and P. Perre., "Mechanism of Heat and Mass Transfer During Convective Drying of Porous Media Under Different Drying Conditions", *Drying Technology*, Vol. 18, 2000, pp. 1367-1388.

Brennan, J.G., J.R. Butters, N.D. Cowell and A.E.V. Lilley "Food Engineering Operation", Elsevier Science Publishing, New York. 1990, pp. 700.

Buckingham, E., "Studies on the Movement of Soil Moisture", U.S. Dept. Agr. Bur. Soil Bull, 1907, pp. 38.

Cealgske, N.H. and Hougen, O.A., "Drying of Granular solids", *J. Ind. Engng Chem.*, 29, 1937, pp. 805-813.

Chen, P. and Pei, D.C.T., "A Mathematical Model of Drying Processes", *Int. J. Heat and Mass Transfer*, 32, 1989, pp. 297-310.

Chen, P. and Schmidt, P.S., "An Integral Model for Drying of Hygroscopic and Nonhygroscopic Materials with Dielectric Heating", *Drying Technology*, 8, 1990, pp. 907-930.

Constant, T., Moyne, C. and Perre, P., "Drying with Internal Heat Generation: Theoretical Aspects and Application to Microwave Drying." *AIChE J*, 42, 1996, pp. 359-368.

Datta A.K. ,Ni H., "Infrared and Hot-Air-Assisted Microwave Heating of Food for Control of Surface Moisture" Journal of Food Engineering 51, 2002, pp.355-364.

Fellow P. "Food processing technology: principles and practice." 1st ed. New York: Ellis Horwood, 1990, pp. 343-355

Feng, H., J. Tang, R.P. Cavalieri and O.A. Plumb., "Heat and Mass Transport in Microwave Drying of Porous Materials in a Spouted Bed." AIChE Journal. 47, 2001, pp. 1499-1512.

Fu, W.B. and Metaxas, A.C., "Numerical Prediction of Three-Dimension Finite Element Analysis of Microwave Heating", J. Microwave Power and Electromagnetic Energy, 29, 1994, pp. 67-75.

Geldart, D., "Types of Fluidization", Powder Technol., 7, 1973, pp. 285-290.

Glouannece, P et al., "Experimental Survey on The Combination of Radiating Infrared and Microwave Sources for the Drying of Porous Material", Applied Thermal Engineering 22, 2002, pp. 1689 -1703.

Goedeken, D.L., and C.H. Tong. "Permeability measurements of porous food materials." Journal of Food Science. 58, 1993, pp. 1329-1331.

Harmathy, T.Z., "Simultaneous Moisture and Heat Transfer in Porous Systems with Particular Reference to Drying", J. Ind. Engng Chem., 8, 1969, pp. 92-103.

Henry, P.S.H., "Diffusion in Absorbing Media", Proc. R. Soc. 171A, 1939, pp. 215-241.

Huang, C.L.D., "Multi-Phase Moisture in Porous Media Subjected to Temperature Gradient", Int. J. Heat and Mass Transfer, 22, 1979, pp.1295-1307.

Idelsohn, S.R., Onate, E. "Finite volumes and finite elements: Two good friends." International Journal for Numerical Methods in Engineering 37 (19), 1994, pp. 3323-3341

Jansen, W. and van der Wekken, B., "Modeling of Dielectrically Assisted Drying", J. Microwave Power and Electromagnetic Energy, 26, 1991, pp. 227-236.

Johner, P. S., Istadi and I.N. Widiassa, "Modeling and Simulation of Deep-Bed Grain Dryers." Drying Technology. 19, 2001, pp. 269-280.

Jolly, P. and Turner, I., "Microwave Drying of Porous Media", In Pro-ceedings of the Fourth Australasian Heat and Mass Transfer Conference, University of Canterbury, Christchurch, New Zealand, 1989, pp. 331-342.

Jones, P.I. and Rowley, A.T., "Dielectric Drying", Drying Technology J., 14 (5), 1996, pp.1063-1098.

Kaviany, M., "Principle of Heat Transfer in Porous Media", Springer, New York, 1991.

Kaviany, M. and Mittal, M., "Funicular State in Drying of Porous Slab", Int. J. Heat and Mass Transfer, 30, 1987, pp. 1407-1418.

Lewis, W.K., "The Rate of Drying of solid Materials", J. Ind. Engng Chem., 13, 1921, pp. 427-432.

- Lian, G., Harris, C. S., Evans, R. and Warboys, M., "Coupled Heat and Moisture Transfer During Microwave Vacuum Drying", J. Microwave Power and Electro-magnetic Energy, 32, 1997, pp. 34-44.
- Luikov, A.V., "Heat and Mass Transfer in Capillary Porous Bodies", Pergamon Press, New York, 1966.
- Mathur, K.B. and Epstein, M., "Spouted Beds" Academic Press, Inc., New York.,1974
- Mhimid, A., S. Ben Nasrallah and J.P. Fohr, "Heat and Mass Transfer During Drying of Granular Products-Simulation with Convective and Conductive Boundary Conditions." International Journal of Heat and Mass transfer. 43, 2000, pp. 2779-2791.
- Mujumdar,A.S, "Handbook of Industrial Drying." Marcel Dekker,Inc.,New York, 1987.
- Mujumdar, A.S. (Ed.), "Handbook of Industrial Drying", 2nd Edition, Marcel Dekker, New York, 1995.
- Mujumdar A.S. Drying Fundamentals. In:Braker C.G.J, editor. "Industrial Drying of Foods." 1st ed. London: Blsckie Academic and professional, 1997. P. 7-30.
- Nield, D.A. and Bejan, A., "Convective in Porous Media", Springer-Verlag, New York, 1991.
- Ni, H., A.K. Datta and K.E. Torrance," Moisture Transport in Intensive Microwave Heating of Biomaterials: a Multiphase Porous Media Model." International Journal of Heat and Mass transfer. 42, 1999, pp. 1501-1512.

Osepchuk, J.M, "A History of Microwave Heating Applications", IEEE Trans. Microwave Theory Tech., 32, 1984, pp. 1201-1224.

Ozisik, M. Necati, "Heat transfer a Basic Approach." 1st ed. Singapore: McGraw-Hill, 1985.

Pall, R., Mohsenin, N.N."A soil air pycrometer for determination of porosity and particle density." Transactions, American Society of Agricultural Engineers 23 (3), 1980, pp. 735-741, 745

Patankar,S.V. , "Numerical Heat Transfer and Fluid Flow." McGraw-Hill. New York, Chaps. 1980, pp. 1-4.

Philip, J.R. and De Vries, D.E., "Moisture Movement in Porous Materials Under Temperature Gradient", Trans. Am. Geophys. Union., 38, 1957, pp. 222-237.

Praveen, D.G. et al., "Infrared and Hot-Air Drying of Onions." Journal of Food Processing and Preservation 29, 2005, pp. 132-150.

Ratanadecho,.P.,Aoki,K.and Akahori,M., "Experimental and Numerical Study of Microwave Drying in Unsaturated Porous Material." Int. Commune. Heat Mass Transfer. 28, 2001, pp. 605-616.

Ratanadecho,.P.,Aoki,K.and Akahori,M., "Influence of Irradiation Time, Particle Sizes, and Initial Moisture Content During Microwave Drying of Multi-Layered Capillary Porous Materials." Journal of Heat Transfer. 124, 2002, pp. 151-161.

Ratanadecho, P. et al., "Drying of Layered Pack Beds, The 6 th ASME-JSME Thermal Engineering Joint Conference", Hawaii, U.S.A., 2003, pp.16-20.

- Ratanadecho, P., "The Simulation of Microwave Heating of Wood using a Rectangular wave Guide: Influence of Frequency and Sample Size." *Chemical Engineering Science* 61, 2006, pp. 4798 – 4811.
- Rogers, J.A. and Kaviany, M., "Funicular and Evaporative-Front Regimes in Convective Drying of Granular Beds", *Int. J. Heat and Mass Transfer*, 35, 1992, pp. 469-479.
- Rutti C., Mujumdar A.S. "Handbook of industrial drying." Volume 1. 2nd ed. New York: Marcel Dekker, 1995. pp. 567-588.
- Salagnac, P et al., "Numerical Modeling of Heat and Mass Transfer in Porous Medium During Combined Hot Air, Infrared and Microwaves Drying." *International Journal of Heat and Mass Transfer* 47, 2004, pp. 4479–4489.
- Schiffmann, R.F., "Microwave and Dielectric Drying. In: *Handbook of Industrial Drying*", Mujumdar, A.S., ed. New York, Marcel Dekker Inc., 1987, pp. 327-356.
- Sherwood, T.K., "The drying of solids", *J. Ind. Engng Chem.*, 22, 1930, pp. 132-136.
- Shivhare et al., "Drying of Corn Using Variable Microwave Power With a Surface Wave Applicator. *Journal of Microwave Power and Electromagnetic Energy* 26 (1), 1991, pp. 38-44.
- Shunji -Murai. *Remote Sensing. Models and Methods for image Processing*; 1993
- Torringa, E.M., van Dijk, E.J. and Bartels, P.S., "Microwave Puffing of Vegetables: Modeling and Measurements", In *Proceedings of 31st Microwave Power Symposium*, Int. Microwave Power Inst., Manassas, VA., 1996.

- Tulasidas, T. N., Raghavan, G. S. V. and Mujumdar, A. S., "Microwave drying of grapes in a single mode cavity at 2450 MHz –II: quality and energy aspects, *Drying Technol.*, 13, 1995, pp.1973-1992.
- Turner, I.W. and Jolly, P.G., "Combined Microwave and Convective Drying of a Porous Material", *Drying technology*, 9, 1991, pp. 1209-1269.
- Turner, I.W., Puiggali, J.R. and Jomaa, W., "A Numerical Investigation of Combined Microwave and Convective Drying of a Hygroscopic Porous Material: A Study Based on Pine Wood", *Trans IChemE*, 76, 1998, pp. 193-209.
- Voller, V.R., Swaminathan, C.R., Thomas, B.G., "Fixed grid techniques for phase change problems." A review *International Journal for Numerical Methods in Engineering* 30 (4), 1990, pp. 875-898
- Von Hippel. A.R., "Dielectric Materials and Applications." MIT Press. Boston. 1954.
- Wang, J., and Sehmugge, T., "An Empirical Model for the Complex Dielectric Permittivity of Soil as Function of Water Content." *IEEE Trans. Geosci. Remote Sens.*, GE-18, 4, 1980. pp. 288-295
- Wang, Z.H., G. Chen. "Heat and Mass Transfer in Batch Fluidized –Bed Drying of Porous Particles." *Chemical Engineering Science*. 55, 2000, pp. 1857-1869.
- Wang, W., B.N. Thorat, G. Chen and A.S. Mujumdar. "Simulation of Fluidized-Bed Drying of Carrot with Microwave Heating." *Drying Technology*. 20, 2002, pp.1855-1867.

Wei, C.K., Davis, H.T., Davis, E.A. and Gordon, J., "Heat and Mass Transfer in Water-Laden Sand Stone: Microwave Heating", AIChE J., 31, 1985, pp. 842-848.

Whitaker, S., "Simultaneous Heat, Mass and Momentum Transfer in Porous Media: a Theory of Drying." Adv. Heat Transfer. 13, 1977. pp. 119-203.

Zhao, H. and Turner, I.W., "The Use of a Coupled Computational Model for Studying the Microwave Heating of Wood", Appl. Math. Modeling, 24, 2000, pp. 183-197.