

Shu-Qing Yang's PUBLICATIONS:

(a) Books

Guo J., Liong S.Y., Lin P., Shankar N.J., Cheong H.F. and Shu-Qing Yang, (2002). "Advances in hydraulics and water engineering" (ed.) World Scientific Publishing Co. Pte Ltd, ISBN 981-238-090-6 (set), ISBN 981-238-108-2 (Vol. 1) and ISBN 981-238-109-0 (Vol. 2), Singapore.
Shu-Qing Yang (2004) "**Global and China's Water Crisis and its Solutions in the 21st century**" Tianjing Univ. Press, ISBN 7-5618-2069-0 (in Chinese).

(b) Patents

1. Shu-Qing Yang, et al. "Coastal Reservoirs", Patent No. 200504653-7. (in Singapore).
2. Shu-Qing Yang, "Water partition wall by soft pipes", Patent No.:03257886.5, (in China)
3. Shu-Qing Yang, "A method of increasing the storage capacity of lake for flooding control", Patent No.: 03130017.0 (in China)
4. Shu-Qing Yang, "Soft curtain for water partition", Patent No.: 03257885.7 (in China)
5. Shu-Qing Yang, "A method for pollution control in large water bodies", Patent No. 03129750.1 (in China).
6. Shu-Qing Yang, "Storage and Isolation of Clean Freshwater in the sea", Patent No. ZL200510016106.1 (In China).

(c) Papers in refereed Journals

1. Shu-Qing Yang (2009). "Conditionally-Averaged turbulent structures in 2-D open channel flow and wake-Law". Water Management, (in press).
2. Shu-Qing Yang (2009). "Influence of Sediment and Secondary Currents on Velocity". Water Management (in press).
3. Shu-Qing Yang (2009) "Drag reduction in turbulent flow with polymer additives". J. Fluids Engineering, ASME (In press).
4. Shu-Qing Yang (2009). "Velocity distribution and wake-law in gradually decelerating flows". J. Hydr. Res., IAHR. (In press).
5. Shu-Qing Yang (2009). "Discussion of Semi-analytical Model for Shear Stress Distribution in Simple and Compound Open Channels". J. Hydr. Engrg., ASCE. (In Press)
6. Pan-Wei Liu and Shu-Qing Yang (2008). "The water environmental problems would be solved after construction of sewerage drainage channel around the lake" J. Environ. Science and Technology, (in Chinese) (in press).
7. Shu-Qing Yang and A. T. Chow (2008). "Turbulence structures in non-uniform flows", Advances in Water Resources, 31, 1344–1351
8. Shu-Qing Yang and S.K. Tan (2008). "Flow resistance over mobile bed in an open-channel flow". Journal of Hydraulic Engineering, ASCE, 134(7), 937-947.
9. Shu-Qing Yang* and G. Dou (2008). "Modeling of Viscoelastic turbulent flow in open channel and pipe" Physics of Fluids, American Institute of Physics, 20(6), 065105.
10. Shu-Qing Yang, Koh, S.C., Kim, I.S. and Song, Y.C. (2007). "Sediment transport capacity-an improved Bagnold formula". International Journal of Sediment Research, 22(1), 27-38.
11. Shu-Qing Yang* (2007). "Turbulent transfer mechanism in sediment-laden flow". Journal of Geophysical Research, AGU, 112, F01005, doi: 10.1029/2005JF000452.
12. Shu-Qing Yang* (2007). "Closure of Sediment transport capacity in rivers", Journal of Hydraulic Research, IAHR. 45(3), 425-428.
13. Shu-Qing Yang* and J. W. Lee (2007). "Reynolds shear stress distributions in a gradually varied flow". Journal of Hydraulic Research, IAHR. 45(4), 462-471.

14. Shu-Qing Yang* and S.Y. Lim (2006). "Discussion on Shear Stress in Smooth Rectangular Open-Channel Flows". *Journal of Hydraulic Engineering, ASCE*, 132(6), 629-631.
15. Shu-Qing Yang*, S.K. Tan and S.Y. Lim (2006). "Closure of Relation between flow resistance and bed-form geometry in wide alluvial channels". *Water Resources Research, AGU*, 42, WR06602.
16. Shu-Qing Yang* et al. (2006). "Velocity distribution in combined wave-current flows". *Advances in water resources*, 29(8), 1196-1208.
17. Shu-Qing Yang*, W. L. Xu and G.L. Yu (2006) "Velocity Distribution in a gradually accelerating flow". *Advances in water resources*, 29(12), 1969-1980.
18. Shu-Qing Yang* and G. Dou (2005). "Drag Reduction in Flat-plate turbulent boundary layer flow by polymer additive". *Physics of Fluids, American Institute of Physics*. 17(6), 065104
19. S.Y. Lim and Shu-Qing Yang* (2005) "Simplified model of tractive-force distribution in closed conduits", *Journal of Hydraulic Engineering, ASCE*, 131(4), 322-329.
20. Shu-Qing Yang* (2005). "Formula for sediment transport in rivers, estuaries and coastal waters". *Journal of Hydraulic Engineering, ASCE*, 131(11) 968-979.
21. Shu-Qing Yang* (2005). "Prediction of total bed material sediment discharge" *Journal of Hydraulic Research, IAHR*. 43(1), 12-22.
22. Shu-Qing Yang* and S.Y. Lim (2005), "Boundary Shear Stress Distribution in Trapezoidal Channels". *Journal of Hydraulic Research, IAHR*. 43(1), 98-102.
23. Shu-Qing Yang* (2005). "Sediment transport capacity in rivers", *Journal of Hydraulic Research, IAHR*. 43(2), 131-138.
24. Shu-Qing Yang*, S.Y. Lim and McCorquadale A.J. (2005). "Investigation of near wall velocity in 3-D smooth channel flows". *Journal of Hydraulic Research, IAHR*. 43(2), 149-157.
25. Shu-Qing Yang*, S.K. Tan and S.Y. Lim (2005). "Relation between flow resistance and bed-form geometry in wide alluvial channels". *Water Resources Research, AGU*, 41(9) W09419.
26. Shu-Qing Yang*, Kim, I.S., Koh, D. and Song, Y.C. (2005): "Interaction of streamwise and wall-normal Velocities in combined wave-current motion". *China Ocean Engrg.*, 19(4), 557-570.
27. Shu-Qing Yang* (2005). "Interactions of boundary shear stress, secondary currents and velocity". *Fluid Dynamics Research*, 36(3), 121-136.
28. Shu-Qing Yang* and McCorquadale A.J. (2004) "Determination of boundary shear stress and Reynolds shear stress in smooth rectangular channel flows". *Journal of Hydraulic Engineering, ASCE*, 130(5), 458-462.
29. Shu-Qing Yang*, S.K. Tan and Lim S.Y. (2004). "Velocity Distribution and Dip Phenomena in Smooth and Straight Open Channel Flow". *Journal of Hydraulic Engineering, ASCE*, 130(12), 1179-1186.
30. Shu-Qing Yang*, Yu J. and Wang Y. (2004). "Estimation of Diffusion Coefficients, Lateral Shear Stress and Velocity in Open Channels with Complex Geometry" *Water Resources Research, AGU*, 40(5), 207-217.
31. Shu-Qing Yang*, S.K. Tan and S.Y. Lim (2004), "Velocity and sediment concentration profiles in sediment- laden flows". *China Ocean Engrg.* 18 (2): 229-244.
32. Yu JX*, Zhang W, Wang GD, Shu-Qing Yang (2004). "A Boussinesq equation-based model for nearshore wave breaking". *China Ocean Engrg.*, 18 (2), 315-320.
33. Shu-Qing Yang* and S.Y. Lim (2003). "Total Load Transport Formula for Flow in Alluvial Channels" *Journal of Hydraulic Engineering, ASCE*, 129(1), 68-72.
34. Shu-Qing Yang* (2003). "Sediment Transport by Waves and Currents." *China Ocean Engrg.* 17(4), 527-540.
35. Shu-Qing Yang* (2003) "Potential Water Resources In Singapore" *J. of Water supply: Research and Technology, International Water Association*, 52(6), 425-434.

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37. Shu-Qing Yang*, and Lim, S.Y. (1999). "Closure to Mechanism of Energy Transportation and Turbulent Flow in a 3-D Channel" Journal of Hydraulic Engineering, ASCE , 125(3), 319-320.
38. Shu-Qing Yang and S.Y. Lim*, (1998) "Boundary Shear Stress Distribution in Smooth Rectangular Open Channel Flows" Proc. International Civil Engineers, Water Maritime & Energy, 130(9), 163-173.
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40. Shu-Qing Yang* (1996) "The Law of Boundary Shear stress and friction factor in river Channels" J. of Hydraulic Engineering, CHES, No. 6, p.62-69, Beijing. (in Chinese).
41. Shuqing Yang* and Zhu Xuan (1995) "On Turbulent Structure of Three -Dimensional Flow" J. of Nanjing Hydraulic Research Institute, Nov. 3, pp. 1-12(in Chinese).
42. Shu-Qing Yang* (1993) "The Law of Boundary Shear in Open Rectangular Channels" J. of Sediment Research, Beijing, Nov. 3, pp. 95-104 (in Chinese).
43. Shuqing Yang* and Dou Guo-ren (1989) "Laser-Doppler-Meter Measurements of Drag Reduction Flow in Roughened Channels" J. of Nanjing Hydraulic Research Institute, No. 3, pp. 1-10 (in Chinese).
44. Dou Guo-ren and Shuqing Yang* (1989) "The Drag-reducing Mechanism of Polymer Dilute Solution and Its Energy Spectrum" J. of Nanjing Hydraulic Research Institute, No. 4, pp. 1-12 (in Chinese).

(e) Publications in conference proceedings

45. Shu-Qing Yang (2008). "Wall-normal velocity, turbulent structures and sediment transport". 16th APD-IAHR congress, Nanjing, China.
46. Shuqing Yang* (2007). "Coastal reservoirs- an innovative solution for water crisis". 32nd IAHR Congress, Venice, Italy.
47. Shuqing Yang* (2007). "Mechanism for initiating secondary currents in 3-D flows". 32nd IAHR Congress, Venice, Italy.
48. Shuqing Yang* (2007). "Velocity distribution in sediment-laden flow". International Conference on Sedimentation, Moscow, Russia.
49. Shuqing Yang* (2007). "Yellow river harnessing and sustainable water resources development". The third Yellow River Forum. Zhenzhou, China.
50. Shuqing Yang* (2007). "Problems in existing coastal reservoirs and a potential solution by soft dam". The third international Conference on Asian and Pacific Coasts, Nanjing, China.
51. Shuqing Yang* and S.F. Zhang, (2007). "Power law in sediment-laden flows". Yangtze Forum, Changsha, China.
52. Shuqing Yang* (2005). "Mechanism of velocity deviation from classical log-law". XXXI IAHR Congress, Seoul, Korea.
53. Shuqing Yang* and I-S Kim (2005). "New strategies for water crisis in the 21st century". XXXI IAHR Congress, Seoul, Korea.
54. Shuqing Yang* and I-S Kim (2005). "Water Resources development- new challenge to coastal engineers in the 21st century". 3rd Intern. Conf. on Coastal Engrg., Jeju, Korea.
55. Shuqing Yang*, Tan S-K and Lim S-Y. (2004) "Prediction of Total Sediment Discharge" 2nd Intern. Conference on Scour and Erosion, Singapore.
56. Shuqing Yang* (2004). "Velocity Distribution and Sediment Transport in Rivers" Ninth International Symposium on River Sedimentation, China.
57. Shuqing Yang* and Lim Siowyoung (2003). "Sediment Transport in Coastal Waters" 2nd International Conference on Port and Maritime R&D and Technology, Singapore.
58. Shuqing Yang* and Lim Siowyoung (2003). "Velocity Distribution in Coastal Waters" 2nd International Conference on Port and Maritime R&D and Technology, Singapore.

59. Shuqing Yang (2003). "Strategic Study on Yellow River's Water Supply and Regulation". 1st International Yellow River Forum on River Basin Management, China.
60. Shuqing Yang* (2002). "1st and 2nd approximate solution of Reynolds equation in 3-D channels" proceeding of 13th Congress of Asia and Pacific Division of international Association for Hydraulic Research (IAHR), World Scientific Press. (**Best Paper Award**).
61. Shuqing Yang* and Lin Pengzhi (2002) "sediment transportation in rivers and coastal waters". Proceeding of 13th Congress of Asia and Pacific Division of International Association for Hydraulic Research (IAHR), World Scientific Press.
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63. Shuqing Yang* (2002). "Water resources development in small islands" Proceeding of 13th Congress of Asia and Pacific Division of International Association for Hydraulic Research (IAHR), World Scientific Press.
64. Shuqing Yang* (2000). "Boundary Shear Stress, Velocity Distribution and Wall Functions in Smooth 3-D Channels" Hydraulic machinery and Systems 20th IAHR Symposium. Charlotte, North Carolina, USA.
65. Shuqing Yang* and Dou Guo-Ren (1993) "Turbulent Structure of Drag Reduction Flow on Turbulent Boundary Layer" No. 3, J. of Nanjing Hydraulic Research Institute. pp. 212-224 (in Chinese).
66. Shuqing Yang* (1992) "The Mechanism of alluvion in Ship Lock and the proposed New Method of decreasing the sediment alluvion in it" Chinese Symp. on Fundamental Study on Sediment Transport, Nov. Beijing. pp. 485-492 (in Chinese).
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(f) Research Reports and Thesis

1. Shu-qing Yang (1999): "Numerical Modeling Study on Lake Pontchartrain Outfall" University of New Orleans, USA.
2. Shu-qing Yang (1996): "Interactions of Boundary Shear Stress, Velocity Distribution and Flow Resistance in 3-D Channels" Thesis for Doctoral Degree, Nanyang Technological University, Singapore.
3. Shu-Qing Yang (1988): "Near Wall Turbulent Structure of Visco-elastic Fluid Flow" Thesis for Master Degree. Nanjing Hydraulic Research Institute, in Chinese.
4. Shu-Qing Yang (1991): "A new Approach for Determining Boundary Shear Stress Distribution and Flow Resistance in Non-circular Channels" Nanjing Hydraulic Research Institute. pp. 1-45.
5. Yang Dechang and Shu-Qing Yang (1991) "Sediment Model Study on the Influence of Sediment Transport on Navigation Channels and Hydraulic Structures in Three Gorge Project" Key Study Project of National Science and Technology Committee. pp. 7-35.
6. Dong Feng-Wu and Shu-Qing Yang (1994). "Experimental Study on the Influence of Tide and Wave on Sediment Transport in Huanghua Port" Nanjing Hydraulic Research Institute.