

## ER Sheet Data Entry Form

## Basic Data

## Officer ID No. Details

Service	CSS	Cadre		Sub Cadre		Id No.	will be alerted by CS Division, LNB
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Select List Year (Allot  
Year)

## Name Details

Title	First Name	Middle Name	Sur Name	Initials	S. K.
Dr	Sushil	Kumar	Singh		

CSL No./  
SCSL No: (if known)

Sex	<input checked="" type="radio"/> Male	<input type="radio"/> Female	Date of Birth	Jul 1, 1964	Date of Retirement	Jun 30, 2024
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Community

General

Religion

Hindu

Father's Name

Sri Satya Narain Singh

## Birth Details

Birth Place	Kundur	Birth State/UT	Uttar Pradesh	Nationality	Indian
Birth District	Kushinagar	Mother Tongue	Hindi		
Domicile	Uttar Pradesh	Physically Handicap Status			
Blood Group	AB +ve	Identification Marks	A scar under chin		

## Marital Details

Marital Status	Married	Spouse Name	Neerja Singh
Spouse Nationality	Indian		

## Joining Details

Source of Recruitment	Secretary MOWR	Joining Date	Nov 1, 1985	Retirement Details	Retiring on 30 June 2024
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## Departmental Examination Details

	Level	Year	Rank
1			
2			
3			

Remarks (if any)	
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Language Known		Read	Write	Speak	
Indian Languages Known	1	Hindi	Fluent	Fluent	Fluent
	2	English	Fluent	Fluent	Fluent
	3	Sanskrit	Limited	Limited	Limited
	4				
	5				
Foreign Lang. Known	1				
	2				
	3				

Address Details				
Permanant Address	Vill. & P.O. - Kundur		City	District - Kushinagar
	State/UT	Uttar Pradesh	Pin Code	274,149
Present Contact Address	150/22 New Teachers Hostel Vikas Nagar, I. I. T. Campus		City	Roorkee
	State/UT	Uttarakhand	Pin Code	247,667
	Phone (Off)	1,332,272,905	Fax.	1,332,272,123
	Phone(Res)	1,332,276,683	Mob No	9,897,038,830
	E-Mail (Mandatory)	sukusi2@gmail.com; sksingh@nih.ernet.in		

**Qualification (Use extra photocopy sheets for multi qualifications, experience, training, awards details) \***

Qualification		Discipline		Specialization 1	
Ph.D.		Civil Engineering		Hydraulics/Hydrology	
Year	Division	CGPA	Specialization 2		
2,000	I		Stream-aquifer Interaction		
Institution		University		Place	Country
Univ. (now I.I.T.) Roorkee		Univ. (now I.I.T.) Roorkee		Roorkee	India

**Experience \***

Type of Posting		Level			
CADRE		Director-Equiv <i>Scientist F</i>			
Designation		Present Position			
Director <i>Scientist F</i>		Regular			
Ministry		Department			
Ministry of Water Resources		National Institute of Hydrology, Roorkee			
Office		Place			
National Institute of Hydrology Roorkee		Roorkee			
Experience Subject		Period of Posting			
Major	Minor	From	To		
<i>Hydrology &amp; Water Resources</i>	<i>Hydraulic &amp; Irrigation Engg</i>	Jul 2, 2009	Continuing		

Note:-Refer the Annexure to fill above Major, Minor Subjects and below given training subject

**Training \***

Training Year	Training Name		Training Subject		
1,998	UNDP Fellowship Training				
Level	Institute Name, Place		Field Visit Country	Field Visit Place (within India)	
C	University of Georgia, Athens		U.S.A.		
Sponsoring Authority	Period of Training		Duration	Result	
UNDP	From	To	( in Weeks)	<input checked="" type="radio"/> Qualified	
			16	<input type="radio"/> Not Qualified	

**Awards/Publications \***

Type of Activity :		<input type="radio"/> Academic	<input type="radio"/> Non Academic
Activity Area		Activity Subject	Activity Title
Awards			
Day	Month	Year	Level

\* Details & additional details are given at enclosed Annexure.

Note: (i) Concerned CSS officer is responsible for the correctness of information sent through ER Sheet proforma.  
 (ii) Subject to verification by the concerned administrative authorities.  
 Date: *19/01/2016* Place: *Roorkee*  
 Information checked and verified - by \_\_\_\_\_ Signature of Officer *[Signature]*

Section Officer	Ministry/Department	
E-mail Id	Room No.	Building Name :
Phone No.	Wing No.	



## Qualification

<u>Degree</u>	<u>Year</u>	<u>Marks</u>	<u>Details</u>
Ph.D.	2000		University of Roorkee (now, I. I.T. Roorkee), India Department: Civil Engineering Thesis: Stream-aquifer interaction Supervisors: Dr. (Prof.) Prabhata K. Swamee; Dr. G. C. Mishra; and Dr. C.S.P. Ojha
M.E.	: 1986		University of Roorkee (now, I. I.T. Roorkee), India Department: Civil Engineering Specialization: Hydraulics and Irrigation Engineering Thesis: Study of turbulence in boundary layer flow past porous fences Special problem: Use of aerators on spillway faces to reduce cavitation Supervisor: Dr. (Prof.) K. G. RangaRaju
B.E.	: 1984		University of Allahabad; M.N.R. Eng. College (now N. I. T.), Allahabad ,Allahabad University, Allahabad, India Department: Civil Engineering Project: Design of highways and subgrades

## Experience

30 years as Scientist with N. I. H., Roorkee, India,  
02 Jul 2009 - till date : Scientist F  
19 Aug 1997 - 01 July 2009 : Scientist E  
19 Aug 1991 - 18 Aug 1997 : Scientist C  
01 Nov 1985 - 18 Aug 1991 : Scientist B

, with working in the following scientific divisions/units (in reverse chronological order) of the N.I.H. Roorkee.).

16. Surface Water Hydrology Division, Roorkee
15. Head, Water Resources System Division, Roorkee
14. Water Resources System Division, Roorkee
13. Groundwater Hydrology Division, Roorkee
12. Groundwater Modelling and Conjunctive Use Division, Roorkee
11. Head of GPS Regional Centre, Sagar
10. Scientist-in-charge of Regional Centre, Jammu
9. Drainage Division, Roorkee
8. Goundwater Modelling and Conjunctive Use Division, Roorkee
7. Conjunctive Use Division, Roorkee
6. Groundwater Assessment Division, Roorkee
5. Water Resources Division, Roorkee
4. Groundwater Assessment Division, Roorkee
3. Finance Officer, Roorkee
2. Assistant Engineer, Maintenance, Roorkee
1. Groundwater Synthesis Division, Roorkee

### Training abroad

<u>Year</u>	<u>Duration</u>	<u>Details</u>
1998	16 weeks	University of Georgia, Athens, GA, U.S.A. (Project IND/90/003) UNDP Fellowship Training on 'Surface water groundwater interaction in lake with special reference to solute dispersion' Supervisors: Dr. (Prof.) M. B. Beck; and Dr. Todd Rassmussen
1989	16 weeks	Danish Hydraulic Institute, Copenhagen, Denmark Fellowship Training on "Application of SHE Model." (Project ALA 86/19) Supervisors: Mr. J. C. Refsgaard; Dr. (Prof.) J. C. Bathrust; Mr. Borg Storm; and Mr. Thomas Clausen

### Awards/recognition

40. **Cambridge Certificate for Outstanding Engineering Achievement** by the International Biographical Centre, Cambridge, England, 2015
39. Biographical profile is included in **2000 Outstanding Intellectuals of the 21<sup>st</sup> Century- 9<sup>th</sup> Edition** published by the International Biographical Centre, Cambridge, England, 2015
38. **Leading Engineers of the World -2015** by the International Biographical Centre, Cambridge, England, 2015.
37. Biographical profile is included in **Who's Who in the World 2014** published by the Marquis Who'sWho Publications, Berkeley Heights, N.J., U.S.A.
36. **Cambridge Certificate for Outstanding Educational Achievement** by the International Biographical Centre, Cambridge, England, 2013.
35. **Man of the Year 2013** by the International Biographical Centre, Cambridge, England, 2013.
34. **Top 100 Educators 2013** by the International Biographical Centre, Cambridge, England, 2013.
33. **The Cambridge Certificate for Outstanding Scientific Achievement** by the International Biographical Centre, Cambridge, England, 2013.
32. Biographical profile is included in **Who's Who in the World 2013** published by the Marquis Who'sWho Publications, Berkeley Heights, N.J., U.S.A.
31. Biographical profile is included in **2000 Outstanding Intellectuals of the 21<sup>st</sup> Century- 2013** published by the International Biographical Centre, Cambridge, England, 2013.
30. **Top Scientists-2013** by the International Biographical Centre, Cambridge, England, 2013.
29. **Leading Scientists of the World 2013** by the International Biographical Centre, Cambridge, England, 2013.
28. Biographical profile is included in **Great Minds of 21<sup>st</sup> Century Hall of Fame** published by the American Biographical Institute (ABI), Raleigh, North Carolina, U.S.A., 2012.
27. **The Cambridge Certificate for Outstanding Scientific Achievement** by the International Biographical Centre, Cambridge, England, 2012.
26. **American Order of Merit** by the American Biographical Institute (ABI), Raleigh, North Carolina, U.S.A., 2012.
25. **International Scientist of the Year - 2012** by the International Biographical Centre, Cambridge, England, 2012.



24. **Top 100 Scientists – 2012** by the International Biographical Centre, Cambridge, England, 2012.
23. **Man of the Year - 2012** by the American Biographical Institute (ABI), Raleigh, North Carolina, U.S.A., 2012.
22. Biographical profile is included in **Great Minds of 21<sup>st</sup> Century** published by the American Biographical Institute (ABI), Raleigh, North Carolina, U.S.A., 2011.
21. Biographical profile is included in **Who's Who in Asia 2012** published by Marquis Who'sWho Publications, Berkeley Heights, NJ, U.S.A.
20. Biographical profile is included in **2000 Outstanding Scientists 2010** by the International Biographical Centre, Cambridge, England, 2010.
19. **The Da Vinci Diamond "For Inspirational Accomplishment"** by the International Biographical Centre, Cambridge, England, 2009.
18. **Top 100 Scientists 2009** by the International Biographical Centre, Cambridge, England, 2009.
17. **Top 100 Educators 2009** by the International Biographical Centre, Cambridge, England, 2009.
16. Biographical profile is included in the **2000 Outstanding Intellectuals of the 21<sup>st</sup> Century-2009/2010**, published by the International Biographical Centre, Cambridge, England, 2009.
15. Biographical profile is included in the **Who'sWho in World, 2009** by Marquis Who's Who, USA.
14. **Top 100 Scientists 2008** by the International Biographical Centre, Cambridge, England, 2008.
13. **International Scientist of the Year 2008** by the International Biographical Centre, Cambridge, England, 2008.
12. **IBC HALL OF FAME** by the International Biographical Centre, Cambridge, England, 2008.
11. **IBC Foremost Scientists of the World-2008** by the International Biographical Centre, Cambridge, England, 2008.
10. **Leading Scientists of the World-2008** by the International Biographical Centre, Cambridge, England, 2008.
9. Biographical profile is included in **2000 Outstanding Scientists 2008/2009** by the International Biographical Centre, Cambridge, England.
8. Biographical profile is included in the **2000 Outstanding Scientists of the 21<sup>st</sup> Century**, published by the International Biographical Centre, Cambridge, England, 2008.
7. **Top 100 Scientists 2007** by the International Biographical Centre, Cambridge, England, 2007.
6. **Distinguished Service to Education Award-2007** by the International Biographical Centre, Cambridge, England, 2007.
5. **21<sup>st</sup> Century Award for Achievement** by the International Biographical Centre, Cambridge, England, 2007.
4. **International Scientist of the Year 2007** by the International Biographical Centre, Cambridge, England, 2007.
3. **Leading Educators of the World 2007** by the International Biographical Centre, Cambridge, England, 2007.
2. Biographical profile is included in the **2000 Outstanding Intellectuals of the 21<sup>st</sup> Century**, published by the International Biographical Centre, Cambridge, England, 2007.
1. Biographical profile is included in the **Who's Who in Asia, 2007**, published by Marquis Who's Who, USA, 2007.

**International publications  
(Area- , and Subject-wise)**

- A. Area: Groundwater Engineering/Hydrogeology/Hydraulic Engineering; Subject: Well hydraulics--small diameter wells**
20. Singh, S. K., "A simple method for quick estimation of leaky aquifer parameters." *Journal of Irrigation and Drainage Engineering*, ASCE, 136(2), **Feb 2010**, 149-153.
  19. Singh, S. K., "Diagnostic curves for identifying leaky aquifer parameters with or without aquitard storage." *Journal of Irrigation and Drainage Engineering*, ASCE, 136(1), **Jan 2010**, 47-57.
  18. Singh, S. K., "Drawdown due to temporally varying pumping discharge: Inversely estimating aquifer parameters." *Journal of Irrigation and Drainage Engineering*, ASCE, 135(2), **Mar/Apr 2009**, 257-260.
  17. Singh, S. K., "Kernel method for transient rate and volume of well discharge under constant drawdown." *Journal of Irrigation and Drainage Engineering*, ASCE, 135(2), **Mar/Apr 2009**, 252-256.
  16. Singh, S. K., "Approximation of well function and identification of leaky aquifer parameters." *Journal of Irrigation and Drainage Engineering*, ASCE, 134(6), **Nov/Dec 2008**, 864-871.
  15. Singh, S. K., "Approximation of *M*-function for partially penetrating wells." *Journal of Irrigation and Drainage Engineering*, ASCE, 134(6), **Nov/Dec 2008**, 861-863.
  14. Singh, S. K., "Diagnostic curve for confined aquifer parameters from early drawdowns." *Journal of Irrigation and Drainage Engineering*, ASCE, **Jul/Aug 2008**, 515-520.
  13. Singh, S. K., "Identifying head loss from early drawdowns." *Journal of Irrigation and Drainage Engineering*, ASCE, 134(1), **Jan/Feb 2008**, 107-110.
  12. Swamee, P. K. and Singh, S. K., "Estimating storage coefficient and transmissivity from slug test data." *Journal of Irrigation and Drainage Engineering*, ASCE, 133(5), **Sep/Oct 2007**, 505-507. **Discussions** by R. P. Chapuis, and Zakai Sen, **Combined Closure** by Authors, 135(2), Mar/Apr 2009, forthcoming.
  11. Singh, S. K., "Simple approximation of well function for constant drawdown variable discharge artesian wells." *Journal of Irrigation and Drainage Engineering*, ASCE, 133(3), **May/Jun 2007**, 282-285.
  10. Singh, S. K., "New methods for aquifer parameters from slug test data." *Journal of Irrigation and Drainage Engineering*, ASCE, 133(3), **May/Jun 2007**, 272-275. **Discussions** by R. P. Chapuis, **Closure** by authors, 135(2), Mar/Apr 2009, forthcoming.
  9. Singh, S. K., "Identification of aquifer parameters from residual drawdowns: An optimization approach." *Hydrological Sciences Journal*, IAHS, 51(6), **Dec 2006**, 1139-1148.
  8. Singh, S. K., "Drawdowns due to intermittent pumping cycles." *Journal of Hydraulic Engineering*, ASCE, 130(6), **Jun 2004**, 568-575. **Discussion** by Rajesh Srivastava; **Closure** by author, 131(11), Nov 2005, 1024.
  7. Singh, S. K., "Storage coefficient and transmissivity from residual drawdowns." *Journal of Hydraulic Engineering*, ASCE, 129(8), **Aug 2003**, 637-644. **Errata**, 129(12), Dec 2003, 1024.
  6. Singh, S. K., "Aquifer boundaries and parameter identification simplified." *Journal of Hydraulic Engineering*, ASCE, 128(8), **Aug 2002**, 774-780.
  5. Singh, S. K., "Well loss estimation: Variable pumping replacing step drawdown test." *Journal of Hydraulic Engineering*, ASCE, 128(3), **Mar 2002**, 343-348.
  4. Singh, S. K., "Identifying effective distance to a recharge boundary." *Journal of Hydraulic Engineering*, ASCE, 127(8), **Aug 2001**, 689-692.



3. Singh, S. K., "Confined aquifer parameters from temporal derivative of drawdowns." *Journal of Hydraulic Engineering*, ASCE, 127(6), **Jun 2001**, 466-470. Errata, 128(5), May 2002, 556.
  2. Singh, S. K., "Identifying impervious boundary and aquifer parameters from pump-test data." *Journal of Hydraulic Engineering*, ASCE, 127(4), **Apr 2001**, 280-285. Errata, 128(5), May 2002, 556.
  1. Singh, S. K., "Simple method for confined-aquifer parameter estimation." *Journal of Irrigation and Drainage Engineering*, ASCE, 126(6), **Nov/Dec 2000**, 404-407. Discussion by Bruno Brunone, Marco Ferrante, and Michela Barluzzi; Closure by author, 129(3), **May/Jun 2003**, 220-223.
- B. Area:** Geotechnical Engineering/Soil Mechanics/Groundwater Engineering; **Subject:** Consolidation of clays
4. Singh, S. K., "Identifying consolidation coefficient: Linear excess pore-water pressure." *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 134(8), **Aug 2008**, 1205-1209.
  3. Singh, S. K. and Swamee, P. K., "Approximate simple invertible equations for consolidation curves under triangular excess pore-water pressure." *Journal of Geotechnical and Geological Engineering*, Springer, 26, **2008**, 251-257.
  2. Singh, S. K., "Diagnostic curve methods for consolidation coefficient." *International Journal of Geomechanics*, ASCE, **Jan/Feb 2007**, 7(1), 75-79.
  1. Singh, S. K., "Estimating consolidation coefficient and final settlement: triangular excess pore water pressure." *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 131(8), **Aug 2005**, 1050-1055. Discussion by Alan K. Parkin; Closure by author, 133(2), **Feb 2007**, 243.
- C. Area:** Groundwater Engineering/Hydrogeology/Hydraulic Engineering; **Subject:** Well hydraulics--large diameter wells
13. Singh, S. K., "Drawdown due to pumping a partially penetrating large diameter well using MODFLOW." *Journal of Irrigation and Drainage Engineering*, ASCE, 135(3), **May/Jun 2009**, 388-392.
  12. Singh, S. K., "Aquifer parameters from drawdowns in large-diameter wells: Unsteady pumping." *Journal of Hydrologic Engineering*, 13(7), **Jul 2008**, 636-640. Discussion by Zekai Sen, 14(9), **Sep 2009**, 1041; Closure by Sushil K. Singh, 14(9), **Sep 2009**, 1042-1044.
  11. Singh, S. K., "Simulating the well function for large-diameter well using MODFLOW." *Journal of Irrigation and Drainage Engineering*, ASCE, 134(3), **May/Jun 2008**, 414-416. Discussion by Zekai Sen, 134(4), **Jul/Aug 2009**, 516; Closure by Sushil K. Singh, 135(4), **Jul/Aug 2009**, 516-517.
  10. Singh, S. K., "Estimating aquifer parameters from early drawdowns in large-diameter wells." *Journal of Irrigation and Drainage Engineering*, ASCE, 134(3), **May/Jun 2008**, 409-413. Discussions by Zekai Sen; and, Mesut Cimen, 135(5), **Sep/Oct 2009**, 713-715; Combined Closure by Sushil K. Singh, 135(5), **Sep/Oct 2009**, 715-719.
  9. Singh, S. K., "Drawdown due to pumping a partially penetrating large-diameter well using MODFLOW." *Journal of Irrigation and Drainage Engineering*, ASCE, 13(7), **Jul 2008**, 636-640.
  8. Singh, S. K., "Aquifer parameters from drawdowns in large-diameter wells: Unsteady pumping." *Journal of Hydrologic Engineering*, ASCE, 13(7), **Jul 2008**, 636-640.



7. Singh, S. K., "Estimating aquifer parameters from early drawdowns in large-diameter wells." *Journal of Irrigation and Drainage Engineering*, ASCE, 134(3), **May/June 2008**, 409-413.
6. Singh, S. K., "Simulating the well function for large-diameter well using MODFLOW." *Journal of Irrigation and Drainage Engineering*, ASCE, 134(3), **May/June 2008**, 414-416.
5. Singh, S. K., "Approximation of well function for large-diameter wells." *Journal of Irrigation and Drainage Engineering*, ASCE, 133(4), **Jul/Aug 2007**, 414-416. **Discussion** by Zakai Sen, 134(4), Jul/Aug 2008, 543; **Closure** by Author, 134(4), Jul/Aug 2008, 543-544.
4. Singh, S. K., "Optimizing aquifer parameters from drawdowns in large diameter wells" *Journal of Irrigation and Drainage Engineering*, ASCE, 133(4), **Jul/Aug 2007**, 411-413. **Discussion** by Zakai Sen ; **Closure** by Author, 135(2), Mar/Apr 2009, forthcoming.
3. Singh, S. K., "Simple equations for aquifer parameters from drawdowns in large diameter wells" *Journal of Irrigation and Drainage Engineering*, ASCE, 133(3), **May/June 2007**, 279-281. **Discussions** by Zakai Sen, and Mesut Cimen, 135(1), Jan/Feb 2009, forthcoming; **Combined Closure** by Author, 135(1), Jan/Feb 2009, forthcoming.
2. Singh, S. K., "Semianalytical model for drawdown due to pumping a partially penetrating large-diameter well." *Journal of Irrigation and Drainage Engineering*, ASCE, 133(2), **Mar/Apr 2007**, 155-161.
1. Singh, S. K., "Simplified kernel method for flow to large diameter wells." *Journal of Irrigation and Drainage Engineering*, ASCE, 132(1), **Jan/Feb 2006**, 77-79.

**D. Area:** Groundwater Engineering/Hydrogeology/Hydraulic Engineering; **Subject:** Well hydraulics--multi-aquifer wells

3. Singh, S. K., "Modeling the transient pumping from two aquifers using MODFLOW" *Journal of Irrigation and Drainage Engineering*, ASCE, 136(4), **Apr 2010**, 225-237.
2. Singh, S. K., "Simple model for analyzing transient pumping from two aquifers without cross flow." *Journal of Irrigation and Drainage Engineering*, ASCE, 135(1), **Jan/Feb 2009**, 135(1), Jan/Feb 2009, 102-107.
1. Singh, S. K., "Simple model for analyzing transient pumping from two aquifers with cross flow." *Journal of Irrigation and Drainage Engineering*, ASCE, 134(2), **Mar/Apr 2008**, 228-234.

**E. Area:** Surface-water hydrology/Environmental Engineering/Soil-science; **Subject:** Dispersion of solute in streams and Soils

7. Singh, S. K., "Comparing three models for treatment of stagnant zones in riverine transport." *Journal of Irrigation and Drainage Engineering*, ASCE, 134(6), **Nov/Dec 2008**, 853-856.
6. Singh, S. K., "Estimating dispersivity and injected mass from breakthrough curve due to instantaneous source." *Journal of Hydrology*, Elsevier, 329(3-4), **Oct 2006**, 685-691.
5. Singh, S. K., "Diagnostic curve for estimating soil dispersivity and instantaneously injected mass." *Journal of Irrigation and Drainage Engineering*, ASCE, 132(3), **May/June 2006**, 281-283. **Discussion** by Rajesh Srivastava; **Closure** by author, 134(1), Jan/Feb 2008, 112-114.
4. Singh, S. K., "Master diagnostic curve for dispersion coefficient of soils." *Journal of Environmental Engineering*, ASCE, 131(6), **Jun 2005**, 988-993. **Discussion** by Rajesh Srivastava; **Closure** by author, 132(9), Sep 2006, 1083-1084.
3. Singh, S. K., "Treatment of stagnant zones in riverine advection dispersion." *Journal of Hydraulic Engineering*, ASCE, 129(6), Jun 2003, 470-473.
2. Singh, S. K and Beck, M. B., "Dispersion coefficient of streams from tracer experiment data." *Journal of Environmental Engineering*, ASCE, 129(6), **Jun 2003**, 539-546.

1. Singh, S. K., "Estimating dispersion coefficient and porosity from soil-column tests." *Journal of Environmental Engineering*, ASCE, 128(11), Nov 2002, 1095-1099. Errata, 129(4), Apr 2003, 389.

**F. Area:** Groundwater Engineering/Hydrogeology/Environmental Engineering; **Subject:** Streamflow depletion./Surface-water groundwater interaction

12. Singh, S. K., "Flow depletion induced by pumping well from stream perpendicularly intersecting impermeable/recharge boundary." *Journal of Irrigation and Drainage Engineering*, ASCE, 135(4), Jul/Aug 2009, 499-504.
11. Singh, S. K., "Modeling laboratory observations on stream-aquifer interaction." *Journal of Irrigation and Drainage Engineering*, ASCE, 133(1), Jan/Feb 2007, 79-82.
10. Singh, S. K., "Flow depletion induced by pumping well from finite length of stream." *Journal of Irrigation and Drainage Engineering*, ASCE, 132(5), Sep/Oct 2006, 508-512.
9. Singh, S. K., "Flow depletion of semipervious streams due to unsteady pumping discharge." *Journal of Irrigation and Drainage Engineering*, ASCE, 132(4), Jul/Aug 2006, 406-409.
8. Singh, S. K., "Rate and volume of stream flow depletion due to unsteady pumping." *Journal of Irrigation and Drainage Engineering*, ASCE, 131(6), Nov/Dec 2005, 539-545.
7. Singh, S. K., "Ramp kernels for aquifer responses to arbitrary stream stage." *Journal of Irrigation and Drainage Engineering*, ASCE, 130(6), Nov/Dec 2004, 460-467. Discussion by Rajesh Srivastava; Closure by author, 132(4), Jul/Aug 2006, 430-431.
6. Singh, S. K., "Aquifer response to sinusoidal or arbitrary stage of semipervious stream." *Journal of Hydraulic Engineering*, ASCE, 130(11), Nov 2004, 1108-1118.
5. Singh, S. K., "Flow depletion of semipervious streams due to pumping." *Journal of Irrigation and Drainage Engineering*, ASCE, 129(6), Nov/Dec 2003, 449-453.
4. Singh, S. K., "Explicit estimation of aquifer diffusivity from linear stream stage." *Journal of Hydraulic Engineering*, ASCE, 129(6), Jun 2003, 463-469. Discussion by Rajesh Srivastava; Closure by author, 130(12), Dec 2004, 1214-1215.
3. Swamee, P. K. and Singh, S. K., "Estimation of aquifer diffusivity from stream stage variation." *Journal of Hydrologic Engineering*, ASCE, 8(1), Jan/Feb 2003, 20-24.
2. Swamee, P. K. and Singh, S. K., "Estimating storage coefficient and transmissivity from slug test data." *Journal of Irrigation and Drainage Engineering*, ASCE, 133(5), Sep/Oct 2007, 505-507. Discussions by R. P. Chapuis, and Zakai Sen, Combined Closure by Authors, 135(2), Mar/Apr 2009, forthcoming.
1. Singh, S. K., "Rate and volume of stream depletion due to pumping." *Journal of Irrigation and Drainage Engineering*, ASCE, 126(5), Sep/Oct 2000, 336-338. Errata, 127(3), May/Jun 2001, 194.

**G. Area:** Surface-water hydrology ; **Subject:** Rainfall-runoff, Unit hydrograph

7. Singh, S. K., "A simple parametric instantaneous unit hydrograph." *Journal of Irrigation and Drainage Engineering*, ASCE, 141(5), May 2015, 04014066-1 to 04014066-10.
8. Singh, S. K., "Time-base as an invertible function of the parameters of gamma unit hydrograph." *Journal of Irrigation and Drainage Engineering*, ASCE, 135(6), Nov/Dec 2009, 802-805.
6. Singh, S. K., "Identifying representative parameters of an IUH." *Journal of Irrigation and Drainage Engineering*, ASCE, 133(6), Nov/Dec 2007, 602-608.
5. Singh, S. K., "Use of gamma distribution/Nash model further simplified for runoff modeling." *Journal of Hydrologic Engineering*, ASCE, 12(2), Mar/Apr 2007, 222-224.
4. Singh, S. K., "Optimal instantaneous unit hydrograph from multi-storm data." *Journal of Irrigation and Drainage Engineering*, ASCE, 132(3), May/Jun 2006, 298-302.



3. Singh, S. K., "Clark's and Espey's unit hydrographs vs the gamma unit hydrograph." *Hydrological Sciences Journal*, IAHS, 50(6), Dec 2005, 1053-1068.
2. Singh, S. K., "Simplified use of gamma-distribution/Nash model for runoff modeling." *Journal of Hydrologic Engineering*, ASCE, 9(3), May/June 2004, 240-243. Discussion by Rajesh Srivastava; Closure by author, 11(1), Jan/Feb 2006, 87-88.
1. Singh, S. K., "Transmuting synthetic unit hydrographs into gamma distribution," *Journal of Hydrologic Engineering*, ASCE, 5(4), Oct 2000, 380-385.

**H. Area: Groundwater Engineering/Hydrogeology; Subject: Surface-water groundwater interaction—artificial/basin recharge**

1. Singh, S. K., "Groundwater mound due to artificial recharge from rectangular areas." *Journal of Irrigation and Drainage Engineering*, 138(5), May 2012, 476-480.

**I. Area: Groundwater Engineering/Drainage Engineering; Subject: Sub-surface drainage**

2. Singh, S. K., "Generalized analytical solutions for groundwater head in inclined aquifers in the presence of subsurface drains." *Journal of Irrigation and Drainage Engineering*, ASCE, 136(3), Mar 2010, 194-203.
1. Singh, S. K., "Generalized analytical solutions for groundwater head in a horizontal aquifer in the presence of subsurface drains." *Journal of Irrigation and Drainage Engineering*, ASCE, 135(3), May/June 2009, 295-302.

**J. Area: Aerodynamics/wind Engineering; Subject: Shelter-belts**

1. RangaRaju, K. G., Garde, R. J., Singh, S. K., and Singh, N., "Experimental study on characteristics of flow past porous fences." *Journal of Wind Engineering and Industrial Aerodynamics*, 29, 1988, 155-163.

**K. Area: Surface-water Hydrology/Hydraulic Engineering; Subject: Open channel hydraulics**

2. Singh, S. K., "Generalized analytical solutions for alternate and sequent depths in rectangular channels. Sine form." *Journal of Irrigation and Drainage Engineering*, ASCE, 141(4), Apr 2015, 04014060-1 to 04014060-7
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*S. K. Singh*  
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 (Dr. Sushil K. Singh)  
 Scientist F