

REFERENCES

1. Adams, V. and Askenazi, A (1998) "Building Better Products with Finite Element Analysis" On Word Press, Santa Fe, New Mexico, 1998.
2. Adeghe, L.N. and Collins, M.P. (1986). "A Finite Element Model for Studying Reinforced Concrete Detailing Problems". Publication No. 86-12, Department of Civil Engineering, University of Toronto.
3. Almusallam, A.A, Al-Gahtani, A.S, Aziz, A.R., Dakhil, F.H and Rasheeduzzafar, (1996) "Effect of reinforcement corrosion on flexural behaviour of concrete slabs". J. Mater. Civil Eng. 8 (3), 123–127.
4. American Concrete Institute, (1999) "Building Code Requirements for Reinforced Concrete" American Concrete Institute, Farmington Hills, Michigan, 1999. ACI 318-99.
5. ANSYS, "Ansys User's Manual Revision 5.5", Ansys, Inc., Canonsburg, Pennsylvania, 1998.
6. Balakrishnan, S. and Murray, D.W. (1988). "Concrete Constitutive Model for NLFE Analysis of Structures" Journal of Structural Engineering, ASCE, Vol. 114, No. 7, pp. 1449-1466.
7. Bangash, M. Y. H. (1989) "Concrete and Concrete Structures: Numerical Modelling and Applications" Elsevier Science Publishers Ltd., London, England,.
8. Barzegar, F. and Schnobrich, W.C. (1986). "Nonlinear Finite Element Analysis of Reinforced Concrete under Short Term Monotonic Loading". Civil Engineering Studies SRS No. 530, Univ. of Illinois at Urbana, Illinois.
9. Bashur, F.K, and Darwin, D. (1978). "Nonlinear Model for Reinforced Concrete Slabs". Journal of Structural Division, *ASCE*, Vol. 104, No. ST1, pp. 157-170.



10. Bazant, Z.P. and Oh, B.H. (1983). "Crack Band Theory for Fracture of Concrete". *Materials and Structures*, RILEM, Paris, Vol. 16, pp. 155-176.
11. Becker, J.M. and Bresler, B.. (1974). "FIRES-RC-A Computer Program for the Fire Response of Structures- Reinforced Concrete Frames". *Report No. UCB/FRG 74-3*, Department of Civil Engineering, University of California, Berkeley.
12. Bhargava, Kapilesh, Ghosh. A K, Mori, Yasuhiro and Ramanujam. S. "Models for corrosion-Induced Bond Strength Degradation in Reinforced Concrete" *ACI Materials Journal*, Nov/Dec 2007.
13. Bresler, B. and Scordelis, A.C. (1963). "Shear Strength of Reinforced Concrete Beams". *Journal of ACI*, Vol. 60, No. 1, pp. 51-72.
14. Cervenka, V., Eligehausen, R. and Pukl, R. (1990). "SBETA-Computer Program for Nonlinear Finite Element Analysis of Reinforced Concrete Structures". Report 90/1, Institute of Building Materials, University of Stuttgart.
15. Cope, R.J., Rao, P.V., Clark, L.A. and Norris, R. (1980). "Modeling of Reinforced Concrete Behavior for Finite Element Analysis of Bridge Slabs". *Numerical Methods for Nonlinear Problems*, C. Taylor, E. Hinton and D.R.J. Oden, eds., Pineridge Press, Swansea, pp. 457-470.
16. De Groot, A.K., Kusters, G.M.A. and Monnier, T. (1981). "Numerical Modeling of Bond-Slip Behavior". *Heron, Concrete Mechanics*, Vol. 26, No. 1B.
17. Desayi, P. and Krishnan, S. (1964) "Equation for the Stress-Strain Curve of Concrete" *Journal of the American Concrete Institute*, March 1964, 61, pp. 345-350.
18. Dotroppe, J.C., Schnobrich, W.C. and Pecknold, D.A. (1973). "Layered Finite Element Procedure for Inelastic Analysis of Reinforced Concrete Slabs". *IABSE Publication*, Vol. 33-11.

19. Franklin, H.A. (1970). "Non-Linear Analysis of Reinforced Concrete Frames and Panels". Ph.D. Dissertation, Division of Structural Engineering and Structural Mechanics, University of California, Berkeley, SEMM 70-5.
20. Gere, J. M. and Timoshenko, S. P. (1997) "Mechanics of Materials" PWS Publishing Company, Boston, Massachusetts,
21. Gilbert, R.I. and Warner, R.F. (1978). "Tension Stiffening in Reinforced Concrete Slabs". Journal of Structural Division, ASCE, Vol. 104, No. ST12, pp. 1885-1900.
22. Gupta, A.K. and Akbar, H. (1983). "A Finite Element for the Analysis of Reinforced Concrete Structures". International Journal for Numerical Methods in Engineering, Vol. 19, pp. 1705-1712.
23. Hemmaty, Y. (1998) "Modelling of the Shear Force Transferred Between Cracks in Reinforced and Fiber Reinforced Concrete Structures" Proceedings of the ANSYS Conference, Vol. 1, Pittsburgh, Pennsylvania, August 1998.
24. Huyse, L. Hemmaty, Y. and Vandewalle, L. (1994) "Finite Element Modeling of Fiber Reinforced Concrete Beams" Proceedings of the ANSYS Conference, Vol. 2, Pittsburgh, Pennsylvania, May 1994.
25. Hyo-Gyoung, Kwak, Filip C. And Filippou (1999) "Finite Element Analysis of Reinforced Concrete Structures under Monotonic Loads" Department of Civil Engineering University of California Berkeley, California.
26. Jain, S.C. and Kennedy, J.B. (1974). "Yield Criterion for Reinforced Concrete Slabs," Journal of Structural Division, ASCE, Vol. 100, No. ST3, pp. 631-644.
27. Jofriet J.C. and Meneice, G.M. (1971). "Finite Element Analysis of RC Slabs". Journal of Structural Division, ASCE, Vol. 97, No. ST3, pp. 785-806.

28. J. Oliver, A.E. Huespe and D. Linero. (2002) "Strong Discontinuity Approach to Fracture of Composite Materials", Technical University of Catalonia (UPC), Civil Engineering School, Barcelona, Spain.
29. J. Oliver A. E. Huespe E. Samaniego and E. W. V (2005) "Chave Continuum approach to the numerical simulation of material failure in concrete" E.T.S. Enginyers de Camins, Canals I Ports, Technical University of Catalonia, Campus Nord UPC, M. odul C1, Gran Capit 1 an s/n, Barcelona 08034, Spain.
30. Katalin Rákóczy and György Deák, (2006) "Analysis of continuous reinforced concrete beams in serviceability limit state" periodica polytechnic research article.
31. Kolek, J. (1958) "An Appreciation of the Schmidt Rebound Hammer", Magazine of Concrete Research, Vol. 10, No. 28, pp. 27-36.
32. Kwak, H.G. and Filip C. Filippou (1990). "Material Nonlinear Finite Element Analysis and Optimal Design of Reinforced Concrete Structures". Ph.D. Dissertation, Department of Civil Engineering, KAIST, Korea.
33. Leibengood, L.D., Darwin, D. and Dodds, R.H. (1986). "Parameters Affecting FE Analysis of Concrete Structures," Journal of Structural Engineering, ASCE, Vol. 112, No. 2, pp. 326-341.
34. Lin, C.S. and Scordelis, A.C. (1975). "Nonlinear Analysis of RC Shells of General Form". Journal of Structural Division, ASCE, Vol. 101, No. ST3, pp. 523-538.
35. Lou Chung, Husam Najm, and Perumalsamy Balaguru, (2007) "Flexural behavior of concrete slabs with corroded bars" Department of Civil Engineering, Dankook University, Seoul, South Korea, 17th August 2007.
36. Meyer, C. and Okamura, H., eds. (1985). "Finite Element Analysis of Reinforced Concrete Structures". Proceedings of the US-Japan Joint Seminar on Finite Element Analysis of Reinforced Concrete, Tokyo, Japan.



37. Mindess, S. and Young, J. F. (1981) "Concrete" Prentice-Hall, Inc., Englewood Cliffs, New Jersey.
38. Nayak, G.C. and Zienkiewicz, O.C. (1972). "Elasto-Plastic Stress Analysis". International Journal of Numerical Methods in Engineering, Vol. 5, pp. 113-135.
39. Ngo, D. and Scordelis, A.C. (1967). "Finite Element Analysis of Reinforced Concrete Beams," Journal of American Concrete Institute (ACI), Vol. 64, No. 3, pp. 152-163.
40. Nilson, A.H. (1972). "Internal Measurement of Bond Slip". Journal of American concrete Institute (ACI), Vol. 69, Title No. 7, pp. 439-441.
41. Nilson, A. H. (1997) "Design of Concrete Structures" McGraw-Hill, Inc, New York, 1997.
42. Oliver, J, A.E. Huespe and D. Linero. (2002) " Strong discontinuity approach to fracture of composite materials" Technical University of Catalonia (UPC), Civil Engineering School, Barcelona, Spain.
43. Rajagopal, K.R. (1976). "Nonlinear Analysis of Reinforced Concrete Beams, Beam-Columns and Slabs by Finite Elements". Ph.D. Dissertation, Iowa State University.
44. Rashid, Y.R. (1968). "Analysis of Prestressed Concrete Pressure Vessels". Nuclear Engineering and Design, Vol. 7, No. 4, pp. 334-344.
45. Rots, J.G., Nauta, P., Kusters, G.M.A. and Blaauwendraad, J. (1985). "Smearred Crack Approach and Fracture Localization in Concrete". *HERON*, Vol. 30, No. 1, pp. 3-48.
46. Scanlon, A. and Murray, D.W. (1974). "Time Dependent Reinforced Concrete Slab Deflections". Journal of the Structural Division, ASCE, Vol. 100, No. ST9, pp. 1911-1924.

47. Scordelis, A.C, Ngo, D. and Franklin, H.A. (1974). "Finite Element Study of Reinforced Concrete Beams with Diagonal Tension Cracks" Proceedings of Symposium on Shear in Reinforced Concrete, ACI Publication SP-42.
48. Selna, L.G. (1969). "Creep, Cracking and Shrinkage in Concrete Frame Structures". Journal of the Structural Division, ASCE, Vol. 95, No. ST12, pp. 2743-2761.
49. Shah, S. P., Swartz, S. E., and Ouyang, C, (1995) "Fracture Mechanics of Concrete" John Wiley & Sons, Inc., New York, New York.
50. Sonia L. Parvanova, Konstantin S. Kazakov, Irina G. Kerelezova, Gospodin K. Gospodinov , Mogens P and Nielsen. (2005). "Modelling the Nonlinear Behaviour of r/c Beams with Moderate Shear Span and without Stirrups using Ansys "University of Architecture, Civil Engineering and Geodesy Faculty of Civil Engineering, 1 Hr. Smirrenski blv., 1046 Sofia.
51. Suidan, M.T. and Schnobrich, W.C. (1973). "Finite Element Analysis of Reinforced Concrete". Journal of the Structural Division, ASCE, Vol. 99, No. ST10, pp. 2109-2122.
52. Vebo, A. and Ghali, A. (1977). "Moment-Curvature Relation of Reinforced Concrete Slabs". Journal of Structural Division, ASCE, Vol. 103, No. ST3, pp. 515-531.
53. Vecchio, F. and Collins, M.P. (1982). "The Response of Reinforced Concrete to In-Plane Shear and Normal Stress". Publication No. 82-03, Department of Civil Engineering, University of Toronto, Toronto, Canada.
54. Willam, K. J. and Warnke, E. P., "Constitutive Model for the Triaxial Behavior of Concrete," Proceedings, International Association for Bridge and Structural Engineering, Vol. 19, ISMES, Bergamo, Italy, pp. 174, 1975.
55. Zhou. K, Martin-Pérez. and B. Lounis. Z., (2005) "Finite element analysis of corrosion-induced cracking, spalling and delamination of RC bridge decks" 1st Canadian Conference on Effective Design of Structures, Hamilton, Ont., July 10-13, 2005, pp. 187-196.