REFERENCES

Adhikary, D. P. and Dysin, A. V.(1998), 'A Continuum model of Layered Rock Masses with Non-associative Joint Plasticity', Int. J. Num. Analy. Meth. Geomech., Vol. 22, P245-261.

American Concrete Pipe Association (1960), 'Jacking Reinforced Concrete Pipelines', Virginia, USA.

Anon(1978), 'State of The Art Review of Tunnel Linings in The UK', Tunnels and Tunnelling, Vol. 10, No. 9.

Anon(1987), 'Making an Impact in Switzerland', Tunnels and Tunnelling, Vol. 19, No. 9.

Atkin, R. (1993), 'Resewering Cambridge by Pipe Jacking', Proc. 2nd Int. Conf. on Pipe Jacking and Microtunnelling, p8.1-8.8, Pipe Jacking Association, London.

Atkinson, J.(1993), 'An Introduction to The Mechanics of Soils and Foundations', McGraw-Hill Book Company, London.

Auld, F. A. (1982), 'Determination of Pipe Jacking Loads', Paper presented at Pipe Jacking Conference, Manchester.

Bangash, M. Y. H.(1989), 'Concrete and Concrete Structures: Numerical Modelling and Applications', Elsvier Applied Science, London.

Bazant, Z. P.(1976), 'Instability, Ductility and Size Effect in Strain Softening Concrete', J. Eng. Mech. Div., ASCE, 102(2), p331-344.

Bazant, Z. P. and Cedolin, L. (1979), 'Blunt Crackband Propagation in Finite Element Analysis', J. Eng. Mech. Div., ASCE, 105(2), p297-315.

Bazant, Z. P. and Gambarova, P. (1980), 'Rough Cracks in Reinforced Concrete', J. Struc. Div. 106(ST4), 819-842.

Bazant, Z. P. and Tsubaki, T. (1980), 'Slip-dilatancy Model for Cracked Reinforced Concrete', J. Struc. Div. 106(ST9), 1947-1966.

Beer. G.(1985), 'An Isoparametric Joint / Interface Element for Finite Element Analysis', Int. J. Num. Meth. Eng., Vol. 21, p585-600.

Bigelow, C. A., Johnson, W. S. and Naik, R. A. (1989), 'A Comparison of Various Micromechanics Models for Metal Matrix Composites', Mechanics of Composite Materials and Structures, AMD-vol 100 (Edited by Reddy, J. N. and Teply, J. L.).

Bolton, M. D.(1979), 'A Guide to Soil Mechanics', MacMillan, London.

Boot, J. C. and Husein, N. M.(1991), 'Vitrified Clay Pipes Subject to Jacking Forces', Proc. 1st Int. Conf. on Pipe Jacking and Microtunnelling, p6.1-6.9, Pipe Jacking Association, London.

Boswell, L. F. and Chen, Z. (1987), 'A General Failure Criterion for Plain Concrete', Int. J. Solids Structures, 23(5), 621-630.

British Standard 5911: Part 120. (1989), 'Precast Concrete Pipes, fittings and ancillary products: Specification for reinforced Jacking Pipes with Flexible Joints', British Standards Institution, London.

Burd, H. J. (1986), 'A Large Displacement Finite Element Analysis of A Reinforced Unpaved Road', D.Phil Thesis, Oxford University.

Burd, H. J. and Brocklehurst, C. J. (1992), 'Parametric Studies of a Soil Reinforcement Problem Using Finite Element Analysis', Computer Methods and Advances in Geomechanics (ed. Beer, Booker and Carter), Balkema, Rotterdam.

Burd, H. J., Yu, H.-S. and Houlsby, G. T.(1989), 'Finite Element Implementation of Frictional Plasticity Models with Dilation', Proc. Int. Conf. Constitutive Laws for Engineering Materials, Chongqing, China, 11-13.

Burd, H. J. (1993), ' OXFEM1.4', Research Report, Dept. of Eng. Science, Oxford University.

Chen, A. C. T. and Chen, W.-F. (1975), 'Constitutive Relations for Concrete', J. Eng. Mech. Div., 101(EM4), 465-481.

Clarke, N. W. H. (1968), 'Buried Pipelines: A Manual of Structural Design and Installation', McLaren and Sons, London.

Cole, B. J. and Lees, H. J. (1993), 'Mechanised Pipejacking and Microtunnelling Development in North West Water', Proc. 2nd Int. Conf. on Pipe Jacking and Microtunnelling, p13.1-13.9, Pipe Jacking Association, London.

Concrete Pipe Association of Australia (1983), Pipe Jacking Bulletin.

Craig, R. N. and Muir Wood, A. M. (1978), 'A Review of Tunnel Lining Practice in The United Kingdom', TRRL Supplementary Report 335, Crowthrorne.

Craig, R. N. (1983), 'Pipe Jacking : A State-of-the-Art-Review', Technical Note No. 112, CIRIA, London.

Damjanic, F. B., Mihanovic, A. and Jaramaz, B. (1987), 'A Two-dimensional Finite Element Model for Seismic Analysis of Reinforced Concrete Structures', Computational Plasticity (Edited by Owen, D. R. J., Hinton, E. and Onate, E.)

Das, B. M.(1983), 'Advanced Soil Mechanics', Hemisphere Publishing Corporation.

de Boer, R. and Dresenkamp, H. T.(1989), 'Constitutive Equation for Concrete in Failure State', J. Eng. Mech., ASCE, Vol.103, p1591-1608.

Durden, J. A.(1982), 'Overcoming Jacking Pressures', Conference Proceedings, Pipe Jacking Association, Manchester.

Frantzskakis, C. and Theillout, J. N. (1989), 'Nonlinear Finite Element Analysis of Reinforced Concrete Structures with a Particular Strategy Following the Cracking Process', Computers & Structures, 31(3), 395-412.

Goodman, R. E., Taylor, R. L. and Brekke, T. L.(1968), 'A Model for the Mechanics of Joint Rock', J. Soil Mechanics and Foundation Div., ASCE, 94(SM3), P637-659.

Gudehus, G., editor (1977). 'Finite Elements in Geomechanics', Wiley and Sons.

Haslem, R. F.(1986), ' Pipe Jacking Forces: from Theory to Practice', Proceedings of Infrastructure, Renovation and Waste Control Centenary Conference, N. W. Association, Institute of Civil Engineers, p173-180.

Haslem, R. F.(1996), 'Structural Interaction at Joints in Pipe Jacked Tunnels', The Structural Engineer, Vol. 74, No. 10.

Hayes, N. F. (1993), 'Mechanised Excavation and Muck Removal Systems for Pipe Jacking', Proc. 2nd Int. Conf. on Pipe Jacking and Microtunnelling, p12.1-12.5, Pipe Jacking Association, London.

Hillerborg, A., Modeer, M. and Peterson, P. E. (1976), 'Analysis of Crack Formation and Crack Growth in Concrete by Means of Fracture Mechanics and Finite Elements', Cem. Concr. Res. Vol. 6, No. 6, p773-782.

Holt, C. C., Milligan, G. W. E. and Burd, H. J.(1997), 'Prototype testing of Improved Microtunnelling Pipes', Report OUEL 2151/97, Dept. of Engineering Science, University of Oxford.

Hough, C. M.(1974), 'Concrete Pipe jacking in the UK', Tunnels and Tunnelling, Vol. 6, No. 3.

Houlsby, G. T.(1988), 'Finite Element Mesh Generation Program OXMESH', Research Report, Dept. of Engineering Science, Oxford University.

Hornung, K., Karlsruhe, K. S., Waldbronn, R. L. and Villmar, A. P. (1987), ' Berechnung und Konstruktion von Vortiebsrohren nach DVDW GW 312 / ATV A 161', Beton-und Stahlbetonbau No. 10 and 11, Berlin.

Husein, N. M. (1989), 'Vitrified Clay Pipes Installed by Trenchless Techniques', PhD Thesis, Univ. of Bradford.

Jiang, J. and Feng, L (1991), 'Concrete Mechanics', Chinese Railway Publisher (in Chinese).

Jones, M.(1990), 'From Jacking to Segments in the Same Drive', Tunnels and Tunnelling, Vol. 22, No. 12.

Kirkland, C. J. (1982), 'The Need for Research', Conference Proceedings, Pipe Jacking Association, Manchester.

Kosowatz, J. J.(1987), 'Thrust-Bore Keeps Traffic Moving - New Soft-ground Mole Jacks Pipe under Congested Intersection', Engineering News-Record, Vol. 218, No. 2.

Krieg, R. D. and Krieg, D. B.(1977), 'Accuracies of Numerical Solution methods for the Elastic-perfectly Plastic Model', ASME J. Pressure Vessel Tech., Vol. 99, p510-515.

Kupfer, H. B. and Gerstle, K. H. (1973), 'Behaviour of Concrete under Biaxial Stress', J. Eng. Mech. Div., 99(EM4), 853-866.

Lauritzsen, R., Sande O. K. and Slatten, A. (1996), 'Europipe Landfall Tunnel', Publikasjon - Norges Geotekniske Institutt/Norwegian Geotechnical Institute, No. 197, Norwegian Geotechnical Inst., Oslo, Norway.

Lin C. S. and Scordelis, C. (1975), 'Nonlinear Analysis of RC Shells of General Form', J. Struc. Div. ASCE, 101(ST3), 523-538.

Liao, H. J. and Cheng M.(1996), ' Construction of a Piperoofed Underpass below Groundwater Table', Proc. of the Institution of Civil Engineers Geotechnical Engineering, Vol. 119, No. 4.

Lock, J (1988), 'Computerised Laser-aided Guidance Systems', Tunnels and Tunnelling, Vol. 20., No. 12.

Matsuoka, H.(1976), ' On the Significance of the Spatial Mobilised Plane', Soil and Foundations, Vol. 16, p91-100.

Milligan, G. W. E. (1995), ' Practical Examinations', Ground Engineering, Vol. 28, No. 10.

Milligan, G. W. E. and Norris, P. (1991), 'Concrete Jacking Pipes - The Oxford Research Project', Proc. 1st Int. Conf. on Pipe Jacking and Microtunnelling, p3.1-3.7, Pipe Jacking Association, London.

Milligan, G. W. E. and Norris, P. (1993a), 'Oxford Research in Pipe Jacking - Research Gathers Pace', Proc. 2nd Int. Conf. on Pipe Jacking and Microtunnelling, p2.1-2.7, Pipe Jacking Association, London.

Milligan, G. W. E. and Norris, P. (1993b), 'The Performance of Concrete Jacking Pipes During Installation', Oxford University Research Report, Report No. OUEL 1986/93.

Milligan, G. W. E. and Norris, P. (1995), 'Pipe Jacking - Research Results and Recommendations', Pipe Jacking Association, London.

Milligan, G. W. E. and Norris, P. (1996), 'Site-based Research in Pipe Jacking - Objectives, Procedures and a case history', Tunnelling and Underground Space Technology, Vol. 11, No. Suppl. 1.

Milligan, G. W. E. and Ripley, K. J.(1989), 'Packing Material in Jacked Pipe Joints', No-Dig 89, Proc. 4nd Int. Conf. on Trenchless Technology, p2.1.1-2.1.10, ISTT, London.

Morcos, S. S. and Jorhovde, R. B. (1992), 'Fracture Criterion of Concrete', Fracture Mechanics of Concrete Structures (Edited by Bazant, Z. P.), Elsevier Applied Science, p5.1-5.4, PJA, London.

Moss, A. F. (1993), 'First Time Sewerage by Pipe Jacking in Major Cities', Proc. 2nd Int. Conf. on Pipe Jacking and Microtunnelling, London.

Neville, A. M.(1981), 'Properties of Concrete', Longman Scientific & Technical, UK.

Ngo-Tran, C. L.(1996), 'The Analysis of Offshore Foundations Subjected to Combined Loading', D.Phil. Thesis, Oxford University.

Nomura. Y.. Hoshina. H.. Shiomi. H. and Umezu. T.(1985). 'Pipe jacking Method for Long Curve Construction', Journal of Construction Engineering and Management, Vol. 111, No. 2.

Norris, P. (1992), 'The Behaviour of Jacked Concrete Pipes During Site Installation', D.Phil Thesis, Univ. of Oxford.

Norris, P. and Milligan, G. W. E.(1991), 'Pipe and Load Transfer Mechanisms During Pipe Jacking', Proc. Int. Conf. on Trenchless Construction, No-Dig 92, Paper H3, p1-15, Washington.

Norris, P. and Milligan G. W. E.(1992), 'Frictional Resistance of Jacked Concrete Pipes at Full Scale', Proc. Int. Conf. on Trenchless Construction, p121-128, No-Dig 92, Paris.

O'Reilly, M. P. and Rogers, C. D. F. (1987), ' Pipe Jacking Forces', Proceedings of the International Conference on Foundations and Tunnels, Vol. 2, Edited M. C. Forde, Edinburgh Engineering Technics Press.

Ortiz, M, Pinsky P. M. and Taylor, R. L.(1983), 'Operator Split Methods for the Numerical Solution of the Elasticoplastic Dynamic Problem', Comp. Meth. Appl. Mech. Eng., Vol.39, p137-157.

Ortiz, M. and Simo, J. C.(1986), 'An Analysis of a New Class of Integration Algorithms for Elastoplastic Constitutive Relations', Int. J. Num. Meth. Eng. Vol. 23, p353-366.

Owen, D. R. J., Figueiras, J. A. and Damjanic (1983), 'Finite Element Analysis of Reinforced and Prestressed Concrete Structures Including Thermal Loading', Comp. Mech. Appl. Mech. Eng., 323-366.

Phillips, D. V. (1987), 'Three-dimensional Non-linear Analysis of Reinforced Concrete with Application to Torsion', Computational Plasticity (Edited by Owen, D. R. J., Hinton, E. and Onate, E.)

Pau, S. H., Chau, K. W. and Wong, W. G.(1993), ' Prospects for No-dig Technology in Hong Kong Construction Industry', J. Constru. Eng. Manag., Vol 119., No. 3.

Pipe Jacking Association (1981), 'A Guide to Pipe Jacking Design', Pipe Jacking Association, London.

Pipe Jacking Association (1986), 'Jacking Concrete Pipes', Pipe Jacking Association Design and Specification Bulletin No. 1, Pipe Jacking Association, London.

Pipe Jacking Association (1995a), 'Guide to Best Practice for the Installation of Pipe Jacks and Microtunnels', Pipe Jacking Association, London.

Pipe Jacking Association (1995b), 'An Introduction to Pipe Jacking and Microtunnelling Design', Pipe Jacking Association, London.

Read, G.(1986), 'New Construction Techniques in Sewers', Civil Engineering (London), Oct. 1986.

Remmer, F. (1995), ' North See Gas Pipe Jacking Pushes Technology to the Limit', Tunnels and Tunnelling, Vol. 27, No. 6.

Richardson, M. A.(1970), 'Pipeforcing: An Appraisal of Ten Years of Operation', Tunnels and Tunnelling, July 1970, p215-219.

Richardson, H. W. and Mayo, R. S. (1941), 'Practical Tunnel Driving', McGraw-Hill, New York and London.

Ripley, K. J.(1989), 'The Performance of Jacked Pipes', D.Phil Thesis, Univ. of Oxford.

Rogers, C. D. F. and Yonan, S. J. S.(1992), 'Experimental Study of a Jacked Pipeline in Sand', Tunnels and Tunnelling, Vol. 24, No. 6, p35-38.

Roison, V.(1989), 'Innovation at the Cross-roads of Europe', Tunnels and Tunnelling, Vol. 21, No. 5.

Schreyer, H. L., Kulak, R. F. and Kramer, M. M.(1979), 'Accurate Numerical Solutions for Elastic-plastic Models', ASME J. Pressure Vessel Tech., Vol. 101, p226-234.

Sharp, J. D. and Turner, M.(1989), 'Pipe Jacking Through Hazardous Ground in St. Helens', Tunnels and Tunnelling, Vol. 21, No. 3.

Shullock, S. H. (1982), 'Problems in Tunnelling by Pipe Jacking at Tilehurst', Journal of the Institution of Water Engineers and Scientists, April, p151-153.

Simo, J. C. and Taylor, R. L.(1985), 'Consistent Tangent Operators for Rate-independent Elastoplasticity', Comp. Meth. Appli. Mech. Eng., Vol. 48, p101-118.

Sloan, S. W.(1981), 'Numerical Analysis of Incompressible and Plastic Solids Using Finite Elements', PhD Thesis, Cambridge University.

Smith, I. M., editor (1994), 'Numerical Methods in Geotechnical Engineering', Balkema, Rotterdam.

Spiegel, M. R.(1959), 'Theory and Problems of Vector Analysis and An Introduction to Tensor Analysis', Schaum Publishing Company, New York.

Strang, G. and Fix G. J.(1973), 'Analysis of the Finite Element Method', Prentice-Hall.

Thomson, J. (1993), 'Pipejacking and Microtunnelling', Black Academic & Professional.

Timoshenko, S. P. and Goodier, J. N.(1970), 'Theory of Elasticity', McGraw-Hill.

Vidosa, F. G., Kotoves, M. D. and Pavlovic, M. N. (1991a), 'Three-dimensional Non-linear Finite Element Model for Structural Concrete, Part 1: Main Features and Objective Study', Proc. of the Institution of Civil Engineers, 517-544.

Vidosa, F. G., Kotsovos, M. D. and Pavlovic, M. N. (1991b), 'Three-dimensional Non-linear Finite Element Model for Structural Concrete, Part 2: Generality Study', Proc. of the Institution of Civil Engineers, 545-560.

Wallis, S.(1984), 'German Put Bends into Pressurised Pipe Jacking', Tunnels and Tunnelling, Vol. 16, No. 9.

Wang, Z.(1982) 'Shanghai Tunnel Projects Spur Construction Innovations', Civil Engineering (New York), Vol. 52, No. 12.

Washbourne, J. (1986), 'Use of Thixotropic Slurries in the Tunnelling Industry', Ground Engineering, Vol. 19., No. 2.

Yamaguchi, E. and Chen, W.-F. (1990), 'Cracking Model for Finite Element Analysis of Concrete Materials', J. Eng. Mech., ASCE, 116(6), 1243-1260.

Zhou, J.-Q.(1997), ' User's Manual of FEPS', Personal Document.

Zienkiewicz, O. C.(1977), 'The Finite Element Method (third edition)', McGraw-Hill.