

## **Reto Cantieni, Verzeichnis der Publikationen, List of Publications**

updated June 10, 2017

Für Downloads: vgl. entsprechenden Punkt in der Navigationsleiste.

For downloads: see navigation menu.

- [109] gemeinsam mit Bajrić, A., Brincker, R., Experimentelle Bestimmung der Dämpfung einer Fussgängerbrücke - Worauf man achten sollte. Bauingenieur (2015)
- [108] together with Bajrić, Anela, Brincker, Rune: Damping Characteristics of a Footbridge - Mysteries and Truth. Proc. 34<sup>th</sup> International Modal Analysis Conference (IMAC), Garden Grove, California, January 25-28 (2016)
- [107] Langzeitüberwachung eines historischen Glockenturms. VDI-Tagung Baudynamik, Kassel (2015)
- [106] together with Rohner, Nathalie; Devaux, Mylène: Analytical and Experimental Investigation of the Dynamic Behavior of a Footbridge. Proc. 6<sup>th</sup> International Operational Modal Analysis Conference (IOMAC), Gijón, Spain, May 12-14 (2015)
- [105] Modal Identification of a Cable-Stayed Footbridge. Proc. 4<sup>th</sup> International Symposium on Life-Cycle Civil Engineering, IALCCE, Tokyo, Japan, November 16-19 (2014)
- [104] One-Year Monitoring of a Historic Bell Tower. eurodyn'14, 9<sup>th</sup> International Conference on Structural Dynamics, Porto, Portugal, June 30 to July 2 (2014)
- [103] One-Year Monitoring of a Historic Bell Tower. S.M.ART.Buil.T., Structural Monitoring of Artistic and Historical Building Testimonies, International Conference, Bari, Italy, March 27-29 (2014)
- [102] Experimental Modal Analysis Under Ambient Excitation: What We Can Learn From Experience. Lecture of Honour. Proc. 5<sup>th</sup> International Operational Modal Analysis Conference (IOMAC), Guimarães, Portugal, May 13-15 (2013)
- [101] Cable-Stayed Footbridge – Investigation Into Superstructure and Cable Dynamics. Proc. 31<sup>st</sup> International Modal Analysis Conference (IMAC), Garden Grove, California, February 11-14 (2013)
- [100] Health Monitoring of Civil Engineering Structures – What We Can Learn from Experience. Proc. 3<sup>rd</sup> International Symposium on Life-Cycle Civil Engineering, IALCCE, Vienna, Austria, October 3-6, p. 400 (abstract) (2012)
- [99] together with Lakzaiean, Fatemeh H.: Dynamic Investigation of a Concrete Footbridge Using Finite Element Modelling and Modal Analysis. Structure and Infrastructure Engineering (2011)
- [98] gemeinsam mit Rosenquist, M.O.: Experimentelle Modalanalyse einer Strassenbrücke im Rahmen einer Belastungsanalyse. Proc. DACH-Tagung "Erdbeben und Baudynamik", Hannover, 15.-16. September (2011)
- [97] gemeinsam with Deger, Y.: Dynamische Probleme bei einer kleinen, vertikalachsigen Windturbine. Proc. DACH-Tagung "Erdbeben und Baudynamik", Hannover, 15.-16. September (2011)
- [96] Traffic Excited Vibrations Acting on Pedestrians Using a Highway Bridge. Proc. 4<sup>th</sup> International Operational Modal Analysis Conference (IOMAC), Istanbul, May 9-11 (2011)

- [95] together with Pelayo, F., López-Aenlle, M., Fernández-Canteli, A.: Operational Modal Analysis of Two Wind-Turbines With Foundation Problems. Proc. 4<sup>th</sup> International Operational Modal Analysis Conference (IOMAC), Istanbul, May 9-11 (2011)
- [94] Traffic Excited Vibrations Acting on Pedestrians Using a Highway Bridge. Proc. 28<sup>th</sup> International Modal Analysis Conference (IMAC), Jacksonville, Florida, February 1-4, 2010, paper #210 on CD (2010)
- [93] Application of Ambient Vibration Testing in Practice (Operational Modal Analysis). Proc. DETAILS EU-RFCS Research Project Final Workshop, Lucca, Italia, 2009, Dec. 9-11, pp. 118-132, ISBN 978-88-579-0047-6 (2010)
- (RFCS: EU Research Fund for Coal and Steel; DETAILS: Design for Optimal Performance of High-Speed Railway Bridges by Enhanced Monitoring Systems, 2006 - 2009)
- [92] gemeinsam mit Brehm, M., Zabel, V.: Modellanpassung einer Eisenbahnbrücke für den Hochgeschwindigkeitsverkehr (Model Updating of a High-Speed Railway Bridge). VDI-Berichte (2063), pp. 403-418, VDI Verlag GmbH, Düsseldorf (2009)
- [91] Modal Analysis of a River Exploitation Power House with and without the Turbine/Generator Units Being in Operation. Proc. IOMAC, 3rd International Operational Modal Analysis Conference, Portonovo (Ancona), May 4-6, 2009, pp. 73-80 (2009)
- [90] Dams. Encyclopedia of Structural Health Monitoring, Boller, C., Chang, F., Fujino, Y., (eds.). John Wiley & Sons, Chichester, UK, pp 2265-2288 (2009)
- [89] together with Brehm, M., Zabel, V., Rauert, T., Hoffmeister, B.: Experimental Modal Analysis of a Twin Composite Filler Beam Railway Bridge for High-Speed Trains with Continuous Ballast. Proc. IABMAS'08, Fourth International Conference on Bridge Maintenance and Safety, Seoul, Korea, 13-17 July, 2008, pp 716-723 (2008)
- [88] together with Brehm, M., Zabel, V., Rauert, T., Hoffmeister, B.: Ambient Testing and Model Updating of a Filler-Beam Bridge for High-Speed Trains. Proc. 7<sup>th</sup> European Conference on Structural Dynamics, eurodyn'08, Southampton, UK, July 7-9, 2008, paper E284 on CD (2008)
- [87] Gemeinsam mit Rosenquist, M. O., Andersen, P., Kündig, Ch.: Experimentelle Modalanalyse von Brücken als Basis für die Durchführung realistischer FE-Berechnungen. Special 2/2008 Messtechnik im Bauwesen, Ernst & Sohn Special A61029, pp. 42-47 (2008)
- [86] together with Andersen, P., Brincker, R., Ventura, C.: Modal Estimation of Civil Structures Subject to Ambient and Harmonic Excitation. Proc. 26<sup>th</sup> International Modal Analysis Conference (IMAC), Orlando, Florida, February 4-7, 2008, paper #111 on CD (2008)
- [85] together with Brehm, M., Zabel, V., Rauert, T., Hoffmeister, B.: Ambient Testing and Model Updating of a Bridge for High-Speed Trains. Proc. 26<sup>th</sup> International Modal Analysis Conference (IMAC), Orlando, Florida, February 4-7, 2008, paper #291 on CD (2008)
- [84] Office Floor Vibrations: Modal Parameter Identification and Vibration Monitoring. Proc ISMA2006, Leuven, Belgium, September 18-20 (2006)

- [83] Einsatz von Vibrowalzen für die Verdichtung von Schwarzbelägen auf Brücken. *Strasse und Verkehr* 91, September 2005, pp. 34-40 (2005)
- [82] together with Biro, T.: Office Floor Vibrations: Modal Parameter Identification and Vibration Monitoring. Proc. 6<sup>th</sup> European Conference on Structural Dynamics, eurodyn'05, Paris, France, September 4-7, 2005, Vol. 1, pp. 533-538 (2005)
- [81] Experimental Methods Used in System Identification of Civil Engineering Structures. Proc. 1<sup>st</sup> International Operational Modal Analysis Conference, 1st IOMAC, April 26-27, 2005, Copenhagen, Denmark, pp. 249-260 (2005)
- [80] Experimental Methods Used in System Identification of Civil Engineering Structures. Proc. 2<sup>o</sup> Workshop: Problemi di vibrazioni nelle strutture civili e nelle costruzioni meccaniche, Perugia, Italia, 10-11 Giugno (2004)
- [79] Dynamische Fahrzeug-Brücken-Interaktion. Aktuelle Probleme der Brückendynamik, D-A-CH Tagung 2003, sia Dokumentation D 0198, Schweizerischer Ingenieur- und Architektenverein, Zürich, pp. 131-138 (2003)
- [78] together with Langenegger, M.: Bridge Vibrations Excited Through Vibro-Compaction of Bituminous Deck Pavement. Proc. 21<sup>st</sup> International Modal Analysis Conference (IMAC), Kissimmee, Florida, February 3-6, 2003, paper #191 (2003)
- [77] together with Langenegger, M.: Bridge Vibrations Excited Through Vibro-Compaction of Bituminous Deck Pavement. Proc. 5<sup>th</sup> European Conference on Structural Dynamics, eurodyn'02, Munich, Germany, September 2-5, 2002, Vol. 1, pp. 361-366 (2002)
- [76] together with Brincker, R., Andersen, P.: Identification and Level 1 Damage Detection of the Z24 Highway Bridge. *Experimental Techniques* 25, No. 6, pp. 51-57 (2001)
- [75] together with Brincker, R., Andersen, P.: Identification and Level 1 Damage Detection of the Z24 Highway Bridge by Frequency Domain Decomposition. Proc. 20<sup>th</sup> International Modal Analysis Conference (IMAC), Los Angeles, California, February 4-7, 2002, pp. 442-447 (2003)
- [74] Versuche der EMPA am Obkirchenviadukt. A2 Info-Blatt, Eine Beilage der Neuen Nidwaldner Zeitung, Verlag: Neue Luzerner Zeitung, 6002 Luzern, Nr. 6, 27. April 2001, pp. 10-11 (2001)
- [73] Assessing a Dam's Structural Properties Using Forced Vibration Testing. Proc. IABSE International Conference on Safety, Risk and Reliability - Trends in Engineering, Malta, March 21-23 (2001)
- [72] together with Krebs, W., Heywood, R.: OECD IR 6 DIVINE Project – Dynamic Interaction Between Vehicle and Infrastructure Experiment – Element 6, Bridge Research – Final Report. EMPA Test Report No. 153'031, ISBN 3-905594-05-6 (2000)
- [71] together with Krebs, W.: Analysis of Dynamic Wheel Load Signals in the Frequency Domain. *Heavy Vehicles Systems, A Special Series of the International Journal of Vehicle Design*, Vol. 6, Nos. 1-4, pp. 287-309 (1999)
- [70] Dynamik von Strassenbrücken unter der Überfahrt schwerer Fahrzeuge. Proc. Workshop "Lastproblematik auf Strassen und Verkehrsbauwerken", Bauhaus-Universität Weimar, 15.07.99, ohne Paginierung (1999)

- [69] together with Deger, Y., Pietrzko, S.: Modal Investigation and Model Updating of an Office Building Floor. Proc. 3rd International Conference "Structural Dynamics Modelling", Cumbria, UK, July 11-14 (1999)
- [68] together with Wiberg, U.\*, Pietrzko, S.J., Deger, Y.: (\*Vattenfall Utveckling AB, S-814 26, Älvkarleby, Sweden): Modal Investigation of a Dam. Proc. 4<sup>th</sup> European Conference on Structural Dynamics, eurodyn'99, Prag, Czech Republic, June 7-10, 1999, Vol. 2, A.A. Balkema/Rotterdam/Brookfield/1999, pp.1001-1006 (1999)
- [67] Experimental Techniques in Dynamics of Bridges. Proc. 4<sup>th</sup> European Conference on Structural Dynamics, eurodyn'99, Prag, Czech Republic, June 7-10, 1999, Vol. 1, A.A. Balkema/Rotterdam/Brookfield/1999, pp.13-22 (1999)
- [66] Tragfähigkeitsanalysen durch Schwingungsmessungen. Proc. 30. Sitzung des Österreichischen Arbeitskreises "Brückenkontrolle und -erhaltung", Bad Tatzmannsdorf, Burgenland, 13.-15. Mai 1998, pp. 124-133 (1998)
- [65] together with Pietrzko, S.J., Deger, Y.: Modal Investigation of an Office Building Floor. Proc. 16<sup>th</sup> International Modal Analysis Conference (IMAC), Santa Barbara, California, February 2-5, 1998, Vol. 2, S. 1172-1178 (1998)
- [64] together with Wiberg, U.\*, Pietrzko, S.J., Deger, Y.: (\*Vattenfall Utveckling AB, S-814 26, Älvkarleby, Sweden), Modal Investigation of a Dam. Proc. 16<sup>th</sup> International Modal Analysis Conference (IMAC), Santa Barbara, California, February 2-5, 1998, S. 1151-1157 (1998)
- [63] Vehicle Effects on Medium to Long-Span Bridges. Special Publication of "Land & Water", No. 7, p. 14 (1997)
- [62] Tragfähigkeitsanalysen durch Schwingungsmessungen. Tagungsbericht der Fachtagung "Sonderkapitel aus dem Brücken- und Ingenieurbau", veranstaltet durch die BAM und die Berliner Senatsverwaltung für Bauen, Wohnen und Verkehr, 4.6.1997, Hsg. BAM, Berlin, pp. 41-50 (1997)
- [61] together with Pietrzko S., Deger Y.: Forced Modal Test of the Vieux Emosson Gravity Dam, Reciprocity-Based Experimental Determination of Dam-Foundation Interaction, FE-Modelling and Updating. Proc. Second International Conference on Structural Dynamics Modelling Test, Analysis and Correlation, Lake Windermere, UK, July 3-5, 1996, pp. 413-424 (1996)
- [60] together with Pietrzko S., Deger Y.: Identification of a Reference Mathematical Model of an Arch Bridge Using Full-Scale Forced Modal Testing and Finite-Element-Modelling. Society of Photo-Optical Instrumentation Engineers, SPIE-Volume 2719, February 28-29, 1996, San Diego, California, USA, pp.180-191 (1996)
- [59] together with Krebs, W.: Analysis of Dynamic Wheel Load Signals in the Frequency Domain. Proc. Engineering Foundation Conference "Vehicle-Infrastructure Interaction IV", Bahia Resort Hotel, San Diego, California, June 2-7, 1996 (1996)
- [58] together with Pietrzko, S.J.: Modal Testing of a Steel/Concrete Composite Bridge with a Servo-Hydraulic Shaker. Proc. 14<sup>th</sup> International Modal Analysis Conference (IMAC), Dearborn, Michigan, February 12-15, 1996, pp. 91-98 (1996)

- [57] together with Felber, A., de Smet, C.A.M.: Ambient Vibration Study of the Ganterbridge. Proc. 14<sup>th</sup> International Modal Analysis Conference (IMAC), Dearborn, Michigan, February 12-15, 1996, pp. 233-239 (1996)
- [56] together with Felber, A.: Advances in Ambient Vibration Testing: Ganter Bridge, Switzerland. Structural Engineering International (6), Number 3, August 1996, pp. 187-190 (1996)
- [55] together with De Smet, C. A. M., Felber, A. J., Krämer, C.: Ambient Vibration Study of the New Rheinbridge for Highway N4. Proc. 14<sup>th</sup> International Modal Analysis Conference (IMAC), Dearborn, Michigan, February 12-15, 1996, pp. 63-69 (1996)
- [54] together with Deger, Y., Felber A.: Optimization of the Finite Element Model of a Reinforced Concrete Bridge Based on Ambient Vibration Tests. Proc. 2<sup>nd</sup> International DTA/NAFEMS/SECED Conference on Structural Dynamics Modelling, Cumbria, UK, July 3-5, 1996, pp. 437-448 (1996)
- [53] together with Deger, Y., de Smet, C.A.M., Felber A.: Finite Element Model Optimization of the New Rheinbridge Based on Ambient Vibration Testing. Proc. 3<sup>rd</sup> European Conference on Structural Dynamics, eurodyn'96, Florence, Italy, June 5-8, 1996, Vol. 2, pp. 817-822 (1996)
- [52] together with Deger, Y., Felber A., de Smet C.A.M.: Finite Element Model Optimization of a Large Bridge Based on Dynamic Testing. Proc. Third International Conference on Bridge Management, University of Surrey, Guilford, Surrey, UK, April 14-17, 1996, pp. 343-351 (1996)
- [51] together with Deger, Y., Felber A., de Smet C.A.M.: Dynamic Modeling and Testing of a Cable Stayed Pedestrian Bridge. Proc. 14<sup>th</sup> International Modal Analysis Conference (IMAC), Dearborn, Michigan, February 12-15, 1996, pp. 211-217 (1996)
- [50] gemeinsam mit Deger, Y., Felber, A., Pietrzko, S., de Smet, C.A.M.: Bestimmung der dynamischen Eigenschaften von Brücken - Kombination von Theorie und Experiment. Proc. D-A-CH-Tagung 95 "Aktuelle Probleme des Erdbebeningenieurwesens und der Baudynamik", Graz, 2./3. November 1995, pp. 85-108 (1996)
- [49] Dynamic Testing of Large Civil Engineering Structures. Proc. Int. Conference devoted to the 75<sup>th</sup> Anniversary of the Klokner Institute, CVUT Praha, Design and Assessment of Building Structures, Praha, September 12-13, 1996, Vol. II, pp. 32-43 (1996)
- [48] together with Krebs, W.: Analysis of Dynamic Wheel Load Signals in the Frequency Domain. Proc. Engineering Foundation Conferende "Vehicle – Ifrastructure Interaction IV, June 2-6, San Diego, California (1996)
- [47] Updating of Analytical Models of Existing Large Structures Based on Modal Testing, Recent Advances in Bridge Engineering - Evaluation, Management and Repair. Proc. US-Europe Workshop on Bridge Engineering, Barcelona, Spain, July 15-17, 1996, pp. 153-177 (1996)
- [46] Dynamische Systemidentifikation. Proc. Tagung "Dynamische Probleme bei Brücken- und Hochbauten", ETH Zürich, 27./28. September 1996, SIA Dokumentation D 0138, Schweizerischer Ingenieur- und Architekten-Verein, Zürich, 1996, pp. 11-20 (1996)

- [45] Gemeinsam mit Deger, Y., Felber, A., Pietrzko, S., de Smet, C.A.M.: Bestimmung der dynamischen Eigenschaften von Brücken – Kombination von Theorie und Experiment. SGEB DACH-Tagung, Graz, 2./3. November (1995)
- [44] together with Deger, Y., Pietrzko, S.: Bridge Model Updating Through Combining Theory and Experiment. Proc. European Rail Research Institute (ERRI) Conference "Maintenance of Railway Bridges and Civil Engineering Structures", Ede (NL), October 4-6, (1995)
- [43] gemeinsam mit Felber, A., Deger, Y.: Optimierung des numerischen Tragwerksmodells einer Stahlbetonbrücke anhand unter Verkehr gemessener Schwingungen. GESA-Kolloquium '95: "Experimentelle Verfahren zur Lösung bautechnischer Aufgaben", VDI-Bericht 1195, pp. 175-184 (1995)
- [42] together with Deger, Y., Felber A., Pietrzko, S.: Optimization of Finite Element Models of Large Structures Based on Dynamic Test Results. Proc. International Symposium Non-Destructive Testing in Civil Engineering (NDT-CE), Berlin, September 26-28, 1995, DGZfP Berichtsband 48.1 (1995), pp. 345-352 (1995)
- [41] together with Rohrmann, R., Deger, Y., Pietrzko, S.J., Rücker, W.: Modal Analysis of the Westend Bridge in Berlin - Experiment and Finite Element Analysis. Proc. International Symposium Non-Destructive Testing in Civil Engineering (NDT-CE), Berlin, September 26-28, 1995, DGZfP Berichtsband 48.1 (1995), pp. 335-343 (1995)
- [40] together with Pietrzko, S., Deger, Y.: Updating of Existing Structures' Models Based on Modal Testing. Proc. IABSE Symposium San Francisco 1995, "Extending the Lifespan of Structures", IABSE Report 73/2, pp. 1581-1586 (1995)
- [39] together with Olia. S.: Rehabilitation of Concrete Highway Bridges Under Traffic: Influence of Vibrations on the Adhesion of Fresh Mortar on Old Concrete. Proc. 6<sup>th</sup> International Conference on Structural Faults and Repair, "Extending the Life of Bridges", London, UK, July 3-5, 1995, Vol. 1, pp. 117-122 (1995)
- [38] together with Barella, S.: Vehicle/Bridge Interaction for Medium Span Bridges - Research Element 6 of the OECD IR6 DIVINE Project. Proc. 4<sup>th</sup> International Symposium on Heavy Vehicles Weights and Dimensions, University of Michigan, Ann Arbor, June 25-29, 1995, pp. 355-364 (1995)
- [37] together with Deger, Y., Pietrzko, S.J., Rücker, W., Rohrmann, R.: Modal Analysis of a Highway Bridge: Experiment, Finite Element Analysis and Link. Proc. 13<sup>th</sup> International Modal Analysis Conference (IMAC), Nashville, Tennessee, February 13-16, 1995, Vol. 2, pp. 1141-1149 (1995)
- [36] together with Deger, Y., Pietrzko, S.: Modal Analysis of s Steel/Concrete Composite Bridge: Tests, Finite Element Simulation and Link. Proc. 13<sup>th</sup> International Modal Analysis Conference (IMAC), February 13-16, 1995, Nashville, Tennessee (1995)
- [35] together with Molina, F.J., Pietrzko, S.: Traffic Response of a Bridge as Predicted from Modal-Test Data. Proc. 13<sup>th</sup> International Modal Analysis Conference (IMAC), February 13-16, 1995, Nashville, Tennessee, Vol. 2, pp. 1171-1177 (1995)
- [34] together with Barella, S.: Swiss Testing of Medium Span Bridges. Proc. OECD DIVINE Project Mid-Term Seminar on Dynamic Loading of Heavy Vehicles and Road Wear, Sydney, Australia, February 2-3, 1995, Paper No. 18, 10 pp. (1995)

- [33] Investigation of the Dynamic Behavior of Civil Engineering Structures - New Developments. *Materials and Structures* 28 (1995), pp. 103-104 (1995)
- [32] together with Pietrzko, S.: Modal Testing of a Steel/Concrete Composite Bridge with Servo-Hydraulic Shaker. *Proc. ISMA19, Tools for Noise and Vibration Analysis*, September 12-14, Leuven, Belgium, pp. 947-956 (1994)
- [31] together with Deger, Y., Pietrzko, S.: Modal Analysis of a Steel/Concrete Composite Bridge: Linking Finite Element Analysis and Experimental Data. *Proc. ISMA19, Tools for Noise and Vibration Analysis*, September 12-14, 1994, Leuven, Belgium, pp. 777-787 (1994)
- [30] together with Deger, Y., Pietrzko, S.: Analisi Modale di un ponte ad arco: Sperimentazione, analisi di elementi finiti e collegamento. *Proc. Conferenza degli utenti Europei dei prodotti MSC*, Torino, Italia, (1994)
- [29] together with Deger, Y., Pietrzko, S.: Modal Analysis of an Arch Bridge: Experiment, Finite Element Analysis and Link. *Proc. 2<sup>nd</sup> International Conference on Computational Structural Technology*, Athens, Greece, *Computational Structural Engineering For Practice*, Civil-Comp Press, Edinburgh, pp. 87-94 (1994)
- [28] together with Deger, Y., Pietrzko, S.: Modal Analysis of a Concrete Arch Bridge: Linking Experiment and Analysis. *Proc. 4<sup>th</sup> International Conference on Short and Medium Span Bridges*, Nova Scotia CAD/CAM Centre, Halifax, August 8-11, 1994, pp. 557-567 (1994)
- [27] together with Deger, Y., Pietrzko, S.: Modal Analysis of a Concrete Arch Bridge: Experiment - Finite Element Analysis - Link EMA/FEM. *Proc. International Bridge Conference Warsaw '94*, June 20-22, 1994, Road and Bridge Research Institute, Warsaw, pp. 27-36 (1994)
- [26] together with Molina, F.J., Pietrzko, S.: Direct Use of the Experimental Modal Data of a Bridge for the Prediction of its Response to a Moving Vehicle. *Proc. Engineering Foundation Conference on Vehicle/Road and Vehicle/Bridge Interaction*, Noordwijkerhout, June 5 to 10 (1994)
- [25] gemeinsam mit Deger, Y., Pietrzko, S.: Untersuchung grosser Tragwerke mit dynamischen Methoden: Aarebrücke Aarburg - Large structure investigation with dynamic methods: the bridge on the river Aare at Aarburg. *12<sup>th</sup> FIP Congress*, Washington, D.C, May 29 - June 2, 1994, Beitrag der FIP Schweizer-Gruppe: Vorgespannter Beton in der Schweiz, pp. 20-26 (1994)
- [24] together with Deger, Y., Pietrzko, S.: Modal Analysis of an Arch Bridge: Experiment, Finite Element Analysis and Link. *Proc. 12<sup>th</sup> International Modal Analysis Conference (IMAC)*, January 31 - February 3, 1994, Honolulu, Hawaii, pp. 425-432 (1994)
- [23] together with Pietrzko, S.: Modal Testing of a Gravity Dam - Influence of the Exciter Placement on the Quality of the Identified Modal Parameters. *Proc. 12<sup>th</sup> International Modal Analysis Conference (IMAC)*, January 31 - February 3, 1994, Honolulu, Hawaii, pp. 1342-1348 (1994)
- [22] together with Deger, Y., Pietrzko, S.: Modal Analysis of a Concrete Gravity Dam: Experiment, Finite Element Analysis and Link. *Proc. 12<sup>th</sup> International Modal Analysis*

- Conference (IMAC), January 31 - February 3, 1994, Honolulu, Hawaii, pp. 442-448 (1994)
- [21] gemeinsam mit Pietrzko, S., Deger, Y.: Modalanalyse einer Schwergewichtsmauer - Vergleich von Messung und Rechnung. Proc. D-A-CH-Tagung (Gesellschaften für Erdbebeningenieurwesen und Baudynamik) 1993, 29./30. September, Weimar, Hochschule für Architektur und Bauwesen; DGEB-Publikation Nr. 7, Deutsche Gesellschaft für Erdbebeningenieurwesen und Baudynamik e.V. (DGEB), Berlin, pp. 225-242 (1994)
- [20] Vehicle/Bridge Dynamic Interaction for Highway Bridges. Proc. 2<sup>nd</sup> European Conference on Structural Dynamics, eurodyn'93, Trondheim, Norway, June 21-23, 1993, A. A. Balkema (1993)
- [19] gemeinsam mit Deger, Y. und Pietrzko, S.: Modal Analysis of a Concrete Gravity Dam - FE-Modeling Versus Experiment. Proc. Int. Workshop on Dam Safety Evaluation, Grindelwald, April 26-28, 1993, Volume 2, pp. 253-262, Dam Engineering, Sutton, Surrey, UK (1993)
- [18] gemeinsam mit Pietrzko, S.: Modal Testing of a Wooden Footbridge Using Random Excitation. Proc. 11<sup>th</sup> Int. Modal Analysis Conference (IMAC), Kissimmee, Florida, February 1-4, 1993, pp. 1230 - 1236. Society for Experimental Mechanics, Inc., Bethel, CT., USA (1993)
- [17] Bridge Effects. In Dynamic Loading of Pavements, Report of the OECD Scientific Expert Group IR2, OECD, Paris, pp. 71-82 (1992)
- [16] Investigation of Vehicle/Bridge Interaction for Highway Bridges. In Heavy Vehicles and Roads Technology, Safety and Policy, Proc. 3<sup>rd</sup> Int. Symposium on Heavy Vehicles Weights and Dimensions, Queens' College, Cambridge, UK, June 28 - July 2, 1992, ed. by D. Cebon and C.G.B. Mitchell, Thomas Telford, London, pp. 130-137 (1992)
- [15] Beitrag zur Dynamik von Strassenbrücken unter der Überfahrt schwerer Fahrzeuge. Diss. ETH Nr. 9505, Zürich (1991) und EMPA Bericht Nr. 220 (1992);  
English version:  
Dynamic Behavior of Highway Bridges Under the Passage of Heavy Vehicles. EMPA Report No. 220 (1992)
- [14] Experimental Investigation of Vehicle/Bridge Interaction. Proc. 2nd Int. Conference on Traffic Effects on Structures and Environment, Jasná, Niske Tatry (CSFR), April 22-24, pp 430-439 (1991)
- [13] Floor Vibrations - Two Case Studies. Proc. Symposium/Workshop on Serviceability of Buildings, University of Ottawa, Ottawa, Canada, May 16-18, Vol II (1988)
- [12] gemeinsam mit Theiler, F. und Schicker, M.: Risse und Ablösungen bei Raufasertapeten - Erkenntnisse der EMPA aus Schadenfällen und Modellversuchen. applica 95, Nr. 2 (1988)
- [11] Dynamische Belastungsversuche an der Bergspurbrücke Deibüel. Teile A und B, EMPA Forschungs- und Arbeitsberichte Nr. 116/4A und 116/4B (1988)  
auch publiziert als (also published as):  
Stossempfindlichkeit von Strassenbrücken unter rollendem Verkehr – Dynamische Belastungsversuche an der Bergspurbrücke Deibüel. Schlussbericht zu Forschungsauftrag



Nr. 8/80. Eidg. Verkehrs- und Energiewirtschaftsdepartment, Bundesamt für Strassenbau. Forschungsberichte Nr. 169A und 169B, Bern (1988)

- [10] Dynamic Load Testing of a Two-Lane Highway Bridge. Proc. of the International Conference on Traffic Effects on Structures and Environment, Strbské Pleso, Czechoslovakia, December 1-3 (1987)
- [9] Contributor to: Dynamic Behaviour of Concrete Structures - Report of the RILEM 65 MDB Committee. Edited by G.P. Tilly, Elsevier (1986)
- [8] gemeinsam mit Bez, R. und Jacquemoud J.: Modélisation du trafic routier suisse. *Ingenieurs et architectes suisses* 111, No. 23 (1985)
- English version:
- together with Bez, R. and Jacquemoud, J., Modeling of Highway Traffic Loads in Switzerland. IABSE Proceedings P-117/87 (1987)
- [7] Untersuchung von Deckenschwingungen bei einem Bürogebäude. EMPA Forschungs- und Arbeitsberichte Nr. 116/2 (1985)
- [6] Dynamic Load Testing of Highway Bridges. Proc. Second Bridge Engineering Conference, Transportation Research Record 950, Vol. 2 (1984)
- [5] Dynamic Load Testing of Highway Bridges. IABSE Proceedings P-75/84 (1984)
- Traduzione in Italiano:
- Prove dinamiche su ponti stradali. IABSE Periodica P-75/84 (1984)
- [4] A Laser System for the Measurement of Displacements of Structures under Static and Dynamic Loading. Chapter 11 in: *Industrial Applications of Lasers*, Edited by H. Koebner, John Wiley & Sons Ltd (1984)
- [3] Dynamische Belastungsversuche an Strassenbrücken in der Schweiz - 60 Jahre Erfahrung der EMPA. EMPA Forschungs- und Arbeitsberichte Nr. 116/1 (1983);
- English version:
- Dynamic Load Tests on Highway Bridges in Switzerland - 60 Years Experience of EMPA. EMPA Report No. 211 (1983)
- [2] gemeinsam mit Grob, J.: Statische und dynamische Verschiebungsmessungen am freistehenden Pfeiler S3 der Ganterbrücke. *Schweizer Ingenieur und Architekt* 99, Nr. 4, (1981)
- [1] Durchbiegungsmessung von Brücken - ein laserstrahlgestütztes System im Vergleich mit konventionellen Methoden. *Material und Technik* 7, Nr. 3 (1979)