

**Kolbein Bell**

# **BIBLIOGRAPHY**

(as of October 2024)

**A - BOOKS AND MAJOR REPORTS**

**B - PAPERS (journals, conferences etc.)**

**C - TECHNICAL REPORTS**

**D - COMPUTER PROGRAMMING AND PROGRAMS**

**E - EDUCATION**

**F - MISCELLANEOUS**

**G - LECTURES, DEBATES etc.**

**H - EUROCODE 5 - next generation**

## A - BOOKS AND MAJOR REPORTS

- A.1 *Analysis of thin plates in bending using triangular finite elements.* (85 pages). Lic.techn (dr.ing) thesis, Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1968.
- A.2 *Finite Element Methods in Stress Analysis.* Tapir, Trondheim, 1969. Co-editor with I. Holand. Japanese edition published in 1972.
- A.3 *On the quintic triangular plate bending element.* (93 pages). Report No. 72-2, Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1972.
- A.4 **NORSAM** - *A programming system for the finite element method. User's manual part I: General Description* (266 pages). SINTEF, Trondheim, 1973. Co-authors: B. Hatlestad, O.E. Hansteen and P.O. Araldsen.
- A.5 **DYNOGS** - *A computer program for dynamic analysis of offshore gravity platforms. Theoretical Manual* (65 pages). SINTEF Report STF71 A78009, Trondheim, 1978.
- A.6 *Handbook of COMPUTER PROGRAMMING - design, development and maintenance of engineering (FORTRAN) software.* ISBN 82-595-2874-6. SINTEF Report STF71 A83005, Trondheim, 1983. Co-authors: A.J. Carr and T.G. Syvertsen.
- A.7 **MATRISESTATIKK** (450 pages; handwritten textbook on Matrix Structural Analysis; in Norwegian). ISBN 82-519-1162-1, Tapir, Trondheim, 1987.
- A.8 **SAMba2** - *program for statistisk og dynamisk analyse av plane rammekonstruksjoner. Brukerhåndbok - Versjon 3.1.3.* (User's manual of a plane frame analysis program; in Norwegian - 153 pages). ISBN 82-7482-006-1. Report No R-2-92, Department of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1992. Co-author: L.F. Haugen.
- A.9 *From Finite Elements to the Troll Platform - Ivar Holand 70th anniversary.* (168 pages). ISBN 82-7482-016-9. Department of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1994. Editor.
- A.10 *Proceedings of the seventh Nordic Seminar on Computational Mechanics (NSCM VII).* (215 pages). ISBN 82-7482-017-7. Department of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1994. Editor.
- A.11 **LAMBda** - *beregning og dimensjonering av plane trekonstruksjoner.* (114 pages; user's manual of a program for analysis and design of plane timber structures; in Norwegian). ISBN 82-7482-028-2. Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1996. Co-authors: B. Haugen, R. Nilsen and A.C. Skard.
- A.12 *Eigensolvers for structural problems - some algorithms for symmetric eigenvalue problems and their merits.* (141 pages). ISBN 90-407-1701-X, Delft University Press, Delft, 1998.

- A.13 **CrossX** - *A Windows based program for computation of parameters for, and stress distribution on, arbitrary cross sections. User's Manual / Version 1.0* (75 pages). ISBN 82-7482-060-6. Report No. R-13-00, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2000.  
Co-authors: O.V. Bleie and L. Wollebæk.
- A.14 **FEMplate** - *A Windows-based program for linear analysis of plates considering both in-plane and transverse loading. User's Manual / Version 1.0* (53 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2004.  
Co-author: L. Wollebæk.
- A.15 **FrameIT** - *A Windows-based program for analysis of 3D frame type structures User's Manual* (48 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2005.  
Co-author (main author): L. Wollebæk.
- A.16 **MATRISESTATIKK** - *Statiske beregninger av rammekonstruksjoner* (515 pages; textbook, in Norwegian, on Matrix Structural Analysis, including an introduction to 2nd order theory and linearized buckling). ISBN 978-82-519-2740-6, Tapir Akademisk Forlag, Trondheim, 2011.  
Based on A7.
- A.17 **fap2D** - *A Windows-based program for static and dynamic analysis of 2D frame type structures - User's Manual* (65 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, May 2013.
- A.18 *An engineering approach to FINITE ELEMENT ANALYSIS of linear structural mechanics problems* (656 pages). ISBN 978-82-321-0268-6, Akademika Publishing, Trondheim, 2013.
- A.19 *Konstruksjonsmekanikk, Del I - Likevektslære* (294 pages; textbook, in Norwegian, on Statics). ISBN 978-82-450-1685-7, Fagbokforlaget, Vigmostad & Bjørke AS, Bergen, 2014.
- A.20 *Konstruksjonsmekanikk, Del II - Fasthetslære* (429 pages; textbook, in Norwegian, on Strength of Materials). ISBN 978-82-450-1848-6, Fagbokforlaget, Vigmostad & Bjørke AS, Bergen, 2015.
- A.21 *Dimensjonering av trekonstruksjoner* (672 pages; textbook, in Norwegian, on design of timber structures). ISBN 978-82-450-2212-4, Fagbokforlaget, Vigmostad & Bjørke AS, Bergen, 2017.
- A.22 **MATRISESTATIKK** - *Statiske beregninger av fagverk, rammer og buer* (563 pages; textbook, in Norwegian, on Matrix Structural Analysis, including an introduction to 2nd order theory and linearized buckling). ISBN 978-82-450-2406-7, Fagbokforlaget, Vigmostad & Bjørke AS, Bergen, 2018.  
Revidert utgave av A.16.

## B - PAPERS (journals, conferences etc)

- B.1. A refined triangular plate bending finite element. *Int. Journal for Num. Meth. in Engineering*, **1** (101-122), 1969.
- B.2. Triangular plate bending elements. Chapter 7 of *Finite Element Methods in Stress Analysis*, edited by I. Holand and K. Bell, (pages 213-252), Tapir, Trondheim, 1969.
- B.3. Analysis of a wave-structure-soil system; case study of a gravity platform. *First International Conference on the Behaviour of Offshore Structures (BOSS-76)*, (18 pages), Trondheim, 1976.  
Co-authors: O.E. Hansteen, P.K. Larsen and E.K. Smith.
- B.4. Dynamic Response of Framed and Gravity Structures to Waves. Chapter 8 of *Numerical Methods in Offshore Engineering*, (35 pages), edited by O.C. Zienkiewicz, R.W. Lewis and K.G. Stagg, Wiley, 1978.  
Also published as SINTEF Report STF71 A76030, Trondheim, 1976.  
Co-authors: R. Sigbjörnsson and I. Holand.
- B.5. Programming aspects of the finite element displacement method. A series of invited lectures presented at the *Conference on Contemporary Problems of the Mechanics of Large Scale Systems*, (100 pages), arranged by the Polish Academy of Sciences, Jablonna, 1977.  
Also published as SINTEF Report STF71 A77016, Trondheim, 1977.
- B.6. Dynamic analysis of off-shore gravity platforms. Invited lecture presented at the *Conference on Contemporary Problems of the Mechanics of Large Scale Systems*, (54 pages), arranged by the Polish Academy of Sciences, Jablonna, 1977.
- B.7. On the accuracy of mode superposition analysis in structural dynamics. *Earthquake Eng. Struct. Dyn.*, **7** (405-411), 1979.  
Co-author: O.E. Hansteen.
- B.8. Some Thoughts on Design, Development and Maintenance of Engineering Software. *Adv. Eng. Software*, **8** (66-72), 1986.  
Also presented at the *4th Int. Conf. on Eng. Software (Engsoft 85)*, London, 1985.
- B.9. On the programming of the direct solution of symmetric, linear equations. *Int. Conf. on Computational Engineering Mechanics (ICCEM'87)*, (16 pages), Beijing, 1987.  
Co-author: O. Aamlid.
- B.10. Rigid elements and other multi-point constraints. Short presentation (20 min) at the *Fourth Nordic Seminar on Computational Mechanics*, Division of Structural Mechanics & Division of Solid Mechanics, Lund Institute of Technology, Lund, 1991.
- B.11. Numerical comparisons of some symmetric eigenvalue algorithms. Abstracts of the *7th Nordic Seminar on Computational Mechanics (NSCM VII)*, edited by K. Bell, (pages 96-99), Department of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1994.
- B.12. Thoughts on programming aspects of computational mechanics - the teaching perspective. *XII Polish Conference on Computer Methods in Mechanics*, (extended abstract, 2 pages), Warsaw - Zegrze, 1995.

- B.13 PC aided analysis and design of plane timber structures. Proceedings of the *8th Nordic Seminar on Computational Mechanics (NSCM VIII)*, (4 pages), Department of Structural Mechanics, Chalmers University of Technology, Gothenburg, 1995.
- B.14 Computer Based Analysis and Design of Plane Timber Structures - Problems and Solutions. Proceedings of the *Int. Wood Engineering Conference (IWEC)*, edited by K.A. Gopu, (Vol 3, pages 376-383), New Orleans, 1996.
- B.15 Computational mechanics and the education of structural engineers - friends or foes? Invited keynote lecture presented at the *Fourth World Congress on Computational Mechanics (IV WCCM)*, (20 pages), Buenos Aires, 1998.
- B.16 Nonlinear analysis as basis for design of timber structures. Proceedings of the *5th World Conference on Timber Engineering (WCTE '98)*, (Vol 1, pages 464-470), Lausanne, 1998.  
Co-authors: T.E. Eggen and B. Haugen.
- B.17 Computer code and numerical computations. Task report No 4 of: *Rotational Capacity of Aluminum Alloy Beams*, edited by M. Langseth, O.S. Hopperstad and F. Mazzolani, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1998.  
Co-authors: B. Haugen and L. Moen.
- B.18 CrossX - example of an efficient GUI for typical 2D FEM analyses. Proceedings of the *13th Nordic Seminar on Computational Mechanics (NSCM-13)*, edited by J. Helleland, H. Osnes and G. Skeie, (pages 163-166), Mechanics Division, Department of Mathematics, University of Oslo, 2000.  
Co-author: L. Wollebæk.
- B.19 Stability of Timber Beams and Columns. Proceedings of the IABSE conference on *Innovative Wooden Structures and Bridges* (pages 155-161), Lahti, Finland 2001. Published as IABSE report, Volume 85.  
Co-author: T.E. Eggen.
- B.20 Large Glulam Arch Bridges - A Feasibility Study. Proceedings of the IABSE conference on *Innovative Wooden Structures and Bridges* (pages 193-198), Lahti, Finland 2001. Published as IABSE report, Volume 85.  
Co-author: E. Karlsrud.
- B.21 Computational Mechanics in Timber Structure Design. Invited keynote lecture. Proceedings of the *15th Nordic Seminar on Computational Mechanics (NSCM15)*, edited by E. Lund, N. Olhoff and J. Stegmann, (pages 33-42). Department of Mechanical Engineering, University of Aalborg, Denmark, 2002.
- B.22 Large, mechanically joined glulam arches. Proceedings of the *8th World Conference on Timber Engineering - WCTE 2004* (pages 55-60), Lahti, Finland, June 2004.  
Co-author: L. Wollebæk.
- B.23 Stability of glulam arches. Proceedings of the *8th World Conference on Timber Engineering - WCTE 2004* (pages 61-66), Lahti, Finland, June 2004.  
Co-author: L. Wollebæk.
- B.24 Dynamic behavior and analysis of a slender timber footbridge. *9th World Conference on Timber Engineering - WCTE 2006* (8 pages), Portland, Oregon, USA, August 2006.  
Co-authors: A. Rönquist and L. Wollebæk

- B.25 Stiffness properties in timber structure analysis and design. *9th World Conference on Timber Engineering - WCTE 2006* (8 pages), Portland, Oregon, USA, August 2006.
- B.26 Timber bridges. Chapter 15 (pages 209-226) of *Handbook 1 - Timber structures*. Leonardo da Vinci Pilot Project TEMTIS, September 2008.  
<http://fast10.vsb.cz/temtis/en/>
- B.27 Forty years of programming the finite element method - A personal view. Invited plenary lecture. Proceedings of the *21st Nordic Seminar on Computational Mechanics (NSCM21)*, edited by T. Kvamsdal, K.M. Mathisen and B. Pettersen, (pages 23-34). International Center of Numerical Methods in Engineering (CIMNE), Barcelona, Spain, 2008.
- B.28 Book review: *The history of the theory of structures*, by Karl-Eugen Kurrer (Ernst & Sohn, 2008, pp 848), *Marine Structures* (2008), doi:10.1016/J.marstruc.2008.10.001
- B.29 Structural systems for glulam arch bridges. Proceedings of *International Conference on Timber Bridges (ICTB 2010)*, edited by K.A. Malo, O. Kleppe and T.Dyken, (pages 49-66), Lillehammer, Norway, September 12-15, 2010.
- B.30 Design of timber structures in a digital world. *13th World Conference on Timber Engineering - WCTE 2014* (7 pages), Quebec City, Canada, August 2014.

## C - TECHNICAL REPORTS

- C.1. Beregning av egensvingninger for hvelvdammene Hegset og Zakariasvann. (Free vibration analysis of two arch dams; in Norwegian - 17 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1969.
- C.2. Teoretiske beregninger av hvelvmodellene på Raufoss. (Static and dynamic analyses of some arch dam models; in Norwegian - 27 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1970.
- C.3. Egensvingning av hvelvdammer. (Free vibration of arch dams; in Norwegian - 23 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1970.
- C.4. Overtopping av dam Zakariasvann - sammendrag av tidligere utførte modellforsøk. (Overflow of the Zakariasvann dam - summary of results from previously conducted model tests; in Norwegian - 6 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1970.
- C.5. Kontrollberegning av betongutforing i tunnel for Oslo sentralstasjon. (Analysis of the concrete tunnel-lining at Oslo Central Station - an independent check; in Norwegian - 29 pages). SINTEF, Group for structural engineering, Trondheim, 1971.  
Co-author: F. Stensrud.
- C.6. Some dynamic analyses of the CONDEEP drilling/production platform proposed to SHELL/ESSO for the Brent Field. (17 pages). SINTEF Report STF71 F73003, Trondheim, 1973.  
Co-authors: I. Holand and L.J. Ramstad.
- C.7. CONDEEP platform B, SHELL / ESSO - BRENT. Dynamic behaviour in the resonance range. (19 pages). SINTEF Report STF71 F73004, Trondheim, 1973.  
Co-authors: I. Langen, L.J. Ramstad and F. Stensrud.
- C.8. CONDEEP, MOBIL-BERYL. Dynamic behaviour in the resonance range. (19 pages). SINTEF Report STF71 F73005, Trondheim, 1973.  
Co-author: F. Stensrud.
- C.9. A simplified dynamic analysis of the CONDEEP platform. (24 pages). SINTEF Report STF71 F74001, Trondheim, 1974.
- C.10. CONDEEP - UNION OIL, Block 2/5 - Alternative I. Dynamic analyses for low period waves including resonance. (24 pages). SINTEF Report STF71 F74008, Trondheim, 1974.  
Co-author: S. Løseth.
- C.11. CONDEEP - SHELL / Cormorant, Platform 4, location B, alt. Ia. Dynamic analyses for low period waves including resonance. (22 pages). SINTEF Report STF71 F74009, Trondheim, 1974.  
Co-author: S. Løseth.
- C.12. CONDEEP - BRENT, Platform B. Dynamic analyses for low period waves including resonance. (25 pages). SINTEF Report STF71 F74010, Trondheim, 1974.  
Co-author: S. Løseth.

- C.13 CONDEEP - SHELL / Platform 4 (DUNLIN). Dynamic analyses for low period waves including resonance. (24 pages). SINTEF Report STF71 F74011, Trondheim, 1974.  
Co-author: S. Løseth.
- C.14 CONCAT - Static analysis of the lower part of the center column. Preliminary report No. 1. (22 pages). SINTEF Report STF71 F74012, Trondheim, 1974.  
Co-author: S. Løseth.
- C.15 CONDEEP - SHELL / Cormorant, Platform 4, location B, alt. IIa. Dynamic analyses for low period waves including resonance. (24 pages). SINTEF Report STF71 F74013, Trondheim, 1974.  
Co-author: S. Løseth.
- C.16 CONCAT - Static analysis of the lower part of the center column. Preliminary report No. 2. (24 pages). SINTEF Report STF71 F74015, Trondheim, 1974.  
Co-author: S. Løseth.
- C.17 CONDEEP - Burmah, alternative 1. Natural period of vibration. (10 pages). SINTEF Report STF71 F74016, Trondheim, 1974.
- C.18 CONDEEP - Mobil 7. Natural period of vibration. (10 pages). SINTEF Report STF71 F74017, Trondheim, 1974.  
Co-author: S. Løseth.
- C.19 CONDEEP - Burmah Oil, Alternative I. Dynamic analyses for low period waves including resonance. (25 pages). SINTEF Report STF71 F74018, Trondheim, 1974.  
Co-author: S. Løseth.
- C.20 CONDEEP - CONOCO / Hutton Field. Dynamic analyses for low period waves including resonance. (21 pages). SINTEF Report STF71 F74019, Trondheim, 1974.
- C.21 CONDEEP - Mobil / Beryl field. Natural periods of vibration. (10 pages). SINTEF Report STF71 F74021, Trondheim, 1974.
- C.22 CONDEEP - Mobil 2nd platform, block 33/9. Dynamic analyses for low period waves including resonance. (25 pages). SINTEF Report STF71 F74024, Trondheim, 1974.
- C.23 CONDEEP for 1000 ft water depths; a feasibility study with respect to the dynamic behaviour. (25 pages). SINTEF Report STF71 F74031, Trondheim, 1974.  
Co-author: S. Løseth.
- C.24 CONDEEP - 4 towers; dynamic behaviour in the resonance range. (17 pages). SINTEF Report STF71 F74036, Trondheim, 1974.  
Co-author: E.K. Smith.
- C.25 Soil-Structure Interaction; a literature survey including recommendation for off-shore gravity platforms. (33 pages). SINTEF Report STF71 A77005, Trondheim, 1977.
- C.26 Stochastic dynamic analyses of the Statfjord B platform - wave induced response. (57 pages). SINTEF Report STF71 F79002, Trondheim, 1979.
- C.27 DRAUGEN - Evaluation of the effects of water pressure in the cracks on the dynamic behaviour - dynamic analysis model. (10 + 9 pages). Report No R-5-92, Department of structural engineering, The Norwegian Institute of Technology (NTH), Trondheim, June 1992.  
Co-authors: E. Hjorth-Hansen, I. Holand, K.M Mathisen and G. Moe.

- C.28 Gardermoen sentralbygning - uavhengig kontroll av takkonstruksjon og hovedsøyler. Kontrollnotat 1. (Independent control report - No 1 - on the structural aspects of the roof structure and the supporting columns of the terminal building at Oslo Airport, Gardermoen; confidential note in Norwegian - 9 + 1 pages). Fortrolig notat fra SINTEF Konstruksjoner og betong, Trondheim, 1995.  
Co-authors: J.J. Jensen and B. Haugen.
- C.29 Gardermoen sentralbygning - uavhengig kontroll av takkonstruksjon. Delkontroll 2 - kontrollnotat 2. (Independent control report - No 2 - on the structural aspects of the roof structure of the terminal building at Oslo Airport, Gardermoen; confidential note in Norwegian - 13 + 4 pages). Fortrolig notat fra SINTEF Konstruksjoner og betong, Trondheim, 1995.  
Co-authors: P. Aune, B. Haugen and A. Aalberg.
- C.30 Supplement to C.28 (in Norwegian - 1+4 pages). SINTEF, Trondheim, 1995.
- C.31 Evenstad bru - kontrollrapport nr 1. Statiske beregninger av fagverkene. (Control report - No 1 - Static analysis of the support trusses of Evenstad timber bridge; in Norwegian - 8 + 16 pages). Report No R-5-96, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1996.  
Co-authors: R.B. Abrahamsen and P. Aune.
- C.32 Evenstad bru - kontrollrapport nr 2. Beregning/dimensjonering av brudekket (Control report - No 2 - Analysis and design of the stress laminated timber deck of Evenstad timber bridge; in Norwegian - 15 pages). Report No R-6-96, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1996.  
Co-authors: R.B. Abrahamsen and P. Aune.
- C.33 Evenstad bru - kontrollrapport nr 3. Dimensjonering av hovedfagverket m/forbindelser. (Control report - No 3 - Design of the main support truss, including connections, of Evenstad timber bridge; in Norwegian - 6 pages). Report No R-8-96, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1996.  
Co-author: P. Aune.
- C.34 Trebruer - Oslofjordforbindelsen. Vurderinger og beregninger av bæresystem og brudekke. (Evaluation and analysis of support- and deckstructures for some timber bridges for the Oslofjord-connection; in Norwegian - 10+17 pages). Report No R-23-96, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1996.
- C.35 Vipping i NS 3470. (Torsional lateral buckling in the Norwegian timber code; in Norwegian - 28+2 pages). Report No R-2-97, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1997.  
Co-authors: T.E. Eggen and B. Haugen.
- C.36 Tynset bro - vertikale eller skråstilte hengestenger i hovedbuen? Foreløpig rapport. (Preliminary report on the evaluation of vertical versus inclined hangers for the main arch span of Tynset bridge; in Norwegian - 5+12 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1999.  
Co-author: E. Karlsrud.

- C.37 Mølledammen bru (bru nr. 02-1535) - Kontroll av beregninger og dimensjonering. (Control of analysis and design of the structural support system for Mølledammen timber bridge; in Norwegian - 12+15 pages). Report No R-10-99, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1999.
- C.38 Tynset bru - Rv. 30. Kontroll av statiske beregninger og dimensjonering av buekonstruksjonene. (Control of analysis and design of the arches of the new timber bridge at Tynset; in Norwegian - 24 + 42 pages). Report No R-12-00, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2000.
- C.39 Tynset bru - Rv. 30. Kommentarer til statiske beregninger og dimensjonering av buekonstruksjonene. (Comments on the analysis and design of the arches of the new timber bridge at Tynset; in Norwegian - 7 pages). Note, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2000.
- C.40 Vurdering av skader på limtretragere i Krafthallen (Tromsø), med hovedvekt på den statiske bærevirkning - endelig rapport. (Assessment of failure of glulam roofbeams in a sportshall in Tromsø, with special attention to their static behaviour - final report; in Norwegian - 25 pages). Report, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, May 2005.
- C.41 Kontrollberegninger av en typisk fagverksbue i takkonstruksjonen til VALLHALL FOTBALLHALL. (Control of analysis and design of a typical steel truss arch in the roof structure of Vallhall Soccer Hall; in Norwegian - 29 pages). Report, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, June 2006.  
Co-author: A. Aalberg.
- C.42 Kollapsen av Perkolo bru - hva gikk galt? (Report, in Norwegian, on the failure of a timber truss bridge – Perkolo bridge – 38 pages).  
Bruseksjonen i Vegdirektoratet, March 10, 2016.  
Medforfatter som medlem av en arbeidsgruppe som undersøkte brukollapsen.

## D - COMPUTER PROGRAMMING AND PROGRAMS

- D.1. Programbeskrivelse av FRAME1. (Description of a plane frame analysis program; in Norwegian - 10 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1966.
- D.2. TPLATE - brukerbeskrivelse. (User's manual of a plate bending analysis program; in Norwegian - 43 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1968.
- D.3. SESAM - Et programmeringssystem for elementmetoder. (Description of a programming system for the finite element method; in Norwegian), *NordDATA-69*, Kongressföredrag, Del 1 (229-236), Stockholm, 1969.
- D.4. Beregning av egenverdier ved elementproblemer - en modifisert versjon av SESAM-EGEN. (Eigenvalue computations in finite element problems - a modified version of SESAM-EGEN; in Norwegian - 13 pages). Program Library, Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1969.
- D.5. SHELL-VIBRA - Beregning av egenesvingninger av skallkonstruksjoner etter elementmetoden. (Description of a program for computing eigenvalues of shell structures analysed by finite elements; in Norwegian - 11 pages). Program Library, Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1969.
- D.6. TPBC - Description of FORTRAN subroutines for computations of stiffness, mass and load matrices for the quintic plate bending element. (20 pages). Program Library, Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1972.
- D.7. SUBMAT - A package of FORTRAN subroutines and functions for in-core matrix operations. (116 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1972.  
Co-author: Ø. Langsrud.
- D.8. *NORSAM - A programming system for the finite element method. User's manual part I: General Description* (266 pages). SINTEF, Trondheim, 1973.  
Co-authors: B. Hatlestad, O.E. Hansteen and P.O. Araldsen.  
Also listed as A.4.
- D.9. NORSAM news 1; a user oriented information service. (30 pages). SINTEF, Trondheim, 1973.
- D.10. CONDYN - User's manual; a computer program for dynamic analysis of simple structural models with special reference to offshore platforms. (45 pages). SINTEF Report STF71 F74005, Trondheim, 1974.
- D.11. ELEMENTBIBLIOTEK - Summary of a finite element library. (20 pages). SINTEF Report STF71 A75032, Trondheim, 1975.
- D.12. CONVIB - A computer program for dynamic analysis of gravity offshore platforms (and arbitrary frame structures); User's Manual. (95 pages). SINTEF Report STF71 A75042, Trondheim, 1975.  
Co-authors: R. Sigbjörnsson and E.K. Smith.

- D.13 RAMME - Regnemaskinprogram for statistisk analyse av plane rammer. Brukerbeskrivelse. (User's manual of a computer program for static analyses of plane frames; in Norwegian - 21 pages). SINTEF Report A76002, Trondheim, 1976.
- D.14 SKI - Regnemaskinprogram for analyse av langrennski. (User's manual of a computer program for static analysis of cross-country skis; in Norwegian - 16 pages). SINTEF Report STF71 A76003, Trondheim, 1976.
- D.15 FEPP - Finite Element Pipe Program; User's Manual. (74 pages). SINTEF Report STF71 F76024, Trondheim, 1976.
- D.16 Programming aspects of the finite element displacement method. A series of invited lectures presented at the *Conference on Contemporary Problems of the Mechanics of Large Scale Systems*, (100 pages), arranged by the Polish Academy of Sciences, Jablonna, 1977.  
Also published as SINTEF Report STF71 A77016, Trondheim, 1977.  
Also listed as B.5.
- D.17 DYNOGS - A computer program for dynamic analysis of offshore gravity platforms. User's Manual (136 pages). Computer Program Library, SINTEF Division of Structural Engineering, Trondheim, 1978.
- D.18 A note on organization of storage and transfer of data in finite element computer programming. (23 pages). SINTEF Report STF71 A79016, Trondheim, 1979.
- D.19 FEMPACK - A package of FORTRAN subroutines for finite element problems. (145 pages). Computer Program Library, SINTEF Division of Structural Engineering, Trondheim, 1979.  
Co-authors: Several.
- D.20 Extended FEMPACK - A system of FORTRAN subroutines for out-of-core solution of finite element problems. (95 pages). Computer Program Library, SINTEF Division of Structural Engineering, Trondheim, 1979.
- D.21 ELBIB - Subprogram package (element library). (61 pages). Computer Program Library, SINTEF Division of Structural Engineering, Trondheim, 1979.  
Co-authors: K. Holthe, I. Langen and F. Stensrud
- D.22 ZOOM - A computer program for static analysis of arbitrary plate systems considering in-plane effects. Theoretical Manual. (46 pages). SINTEF Report STF71 A79017, Trondheim, 1979.  
Co-author: K.H. Holthe.
- D.23 *Handbook of COMPUTER PROGRAMMING - design, development and maintenance of engineering (FORTRAN) software.* SINTEF Report STF71 A83005, Trondheim, 1983.  
Co-authors: A.J. Carr and T.G. Syvertsen.  
Also listed as A.6.
- D.24 Innføring i (enkel) FORTRAN. (An introduction to FORTRAN; lecture notes in Norwegian - 93 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1983. (Revised in 1984).  
Also listed as E.6.

- D.25 SMIS - Symbolic Matrix Interpretation System, by A.J. Carr.  
En forenklet brukerbeskrivelse på norsk (A simplified user's manual in Norwegian - 19 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1983.  
Co-author: J.K. Moen.
- D.26 Kort innføring i bruk av VAX/VMS. (An introduction to VAX/VMS; lecture notes in Norwegian - 50 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1984.  
Co-author: K. Larsen.  
Also listed as E.7.
- D.27 SOL - A package of FORTRAN subroutines for matrix inversion and solution of systems of linear equations - Programmer's Guide. (19 pages). **SAM library**. Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1985.
- D.28 Some Thoughts on Design, Development and Maintenance of Engineering Software. *Adv. Eng. Software*, **8** (66-72), 1986.  
Also presented at the *4th Int. Conf. on Eng. Software (Engsoft 85)*, London, 1985.  
Also listed as B.8.
- D.29 A general datastructure for linear finite element analysis. (48 pages). SINTEF Report STF71 A87026, Trondheim, 1987.
- D.30 On the programming of the direct solution of symmetric, linear equations. *Int. Conf. on Computational Engineering Mechanics (ICCEM'87)*, (16 pages), Beijing, 1987.  
Co-author: O. Aamlid.  
Also listed as B.9.
- D.31 STATLIB - En samling FORTRAN subrutiner og funksjoner for typiske operasjoner i tekniske (statiske) beregninger. (A collection of FORTRAN routines for structural computations - user's manual in Norwegian - 47 pages). Division of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1989.  
Co-author: A.J. Carr.
- D.32 The SAM library - A collection of packages of FORTRAN routines for development of technical (finite element type) programs. (22 pages). SINTEF Report STF71 A89040, Trondheim, 1989.
- D.33 MAT - A package of FORTRAN subroutines for simple vector/matrix operations - Programmer's Guide. Revised version (54 pages). **SAM library**. Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1989.
- D.34 ASM - A package of FORTRAN subroutines for assembly of ('in-core') finite element system matrices and related problems - Programmer's Guide. Revised version (55 pages). **SAM library**. Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1989.
- D.35 EIG - A package of FORTRAN subroutines for real, symmetric matrix eigenproblems - Programmer's Guide. (61 pages). **SAM library**. Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1989.
- D.36 UTL - A package of FORTRAN subroutines for various utility type operations - Programmer's Guide. (24 pages). **SAM library**. Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1989.

- D.37 SAMba2 - et generelt program for analyse av plane rammekonstruksjoner - Brukerhåndbok. (A general computer program for analysis of plane frame structures - User's manual in Norwegian - 130 pages). Division of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1989.
- D.38 FII - A package of subroutines and functions for free field FORTRAN Input Interpretation - Programmer's Guide. Revised version (67 pages). **SAM library**. Report R-9-91, Division of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1991.
- D.39 RNM - A package of FORTRAN subroutines for renumbering of nodal points in finite element meshes - Programmer's Guide. (22 pages). **SAM library**. Report R-10-91, Division of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1991.
- D.40 SAMba2 - program for statisk og dynamisk analyse av plane rammekonstruksjoner. Brukerhåndbok - Versjon 3.1.3. (User's manual of a plane frame analysis program; in Norwegian - 153 pages). ISBN 82-7482-006-1. Report No R-2-92, Department of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1992. Co-author: L.F. Haugen.  
Also listed as A.8.
- D.41 RGD - A package of FORTRAN subroutines for handling of rigid elements in finite element analysis programs - Programmer's Guide. (22 pages). **SAM library**. Report R-13-1993, Division of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1993.
- D.42 MSH - A package of FORTRAN subroutines for input and generation of finite element meshes of 1- and 2-dimensional elements (including node renumbering) - Programmer's Guide. (95 pages). **SAM library**. Report R-14-1993, Division of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1993.
- D.43 DMS - A simple data management system for storage and transfer of data in FORTRAN 77 programs - Programmer's Guide. Revised version (96 pages). **SAM library**. Report R-6-1994, Division of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1994.
- D.44 SPR - A package of FORTRAN subroutines for assembly and solution of symmetric finite element systems by sparse matrix methods - Programmer's Guide. (60 pages). **SAM library**. Report R-7-1994, Division of Structural Engineering, The Norwegian Institute of Technology, Trondheim, 1994. Co-author: A.C. Damhaug.
- D.45 *LAMBda* - beregning og dimensjonering av plane trekonstruksjoner. (114 pages; user's manual of a program for analysis and design of plane timber structures; in Norwegian). ISBN 82-7482-028-2. Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1996. Co-authors: B. Haugen, R. Nilsen and A.C. Skard.  
Also listed as A.11.
- D.46 Computer Based Analysis and Design of Plane Timber Structures - Problems and Solutions. *Int. Wood Engineering Conference (IWEC)*, (8 pages), New Orleans, 1996.  
Also listed as B.12.

- D.47 SAM library update. Note (7 pages), Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1997.
- D.48 SAM library - Update notes for packages EIG, ASM and SPR. (43 pages). Report No R-44-97, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1997.
- D.49 **CrossX** - *A Windows based program for computation of parameters for, and stress distribution on, arbitrary cross sections. User's Manual / Version 1.0.* (75 pages). ISBN 82-7482-060-6. Report No. R-13-00, Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2000.  
Co-authors: O.V. Bleie and L. Wollebæk.  
Also listed as A.13.
- D.50 **Frame2D** - a system of Fortran subroutines for static and dynamic analysis of plane frame structures. General description, data structures, subroutine descriptions (of 8 callable subroutines) and error report (a total of 74 pages).  
Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2002.
- D.51 **FEMplate** - *A Windows-based program for linear analysis of plates considering both in-plane and transverse loading. User's Manual / Version 1.0* (53 pages).  
Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2004.  
Co-author: L. Wollebæk.  
Also listed as A.14.
- D.52 **FrameIT** - *A Windows-based program for analysis of 3D frame type structures User's Manual* (48 pages).  
Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2005.  
Co-author (main author): L. Wollebæk.  
Also listed as A.15.
- D.53 Revised and extended version of reference D.50, January 2011
- D.54 **Frame2D** - a system of Fortran subroutines for static and dynamic analysis of plane frame structures. General description, data structures, subroutine descriptions (of 21 callable subroutines) and error report (a total of 196 pages).  
Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2013.  
Revised version of refs. D.50 and D.53.

## E - EDUCATION

- E.1. *Svingningsteori for konstruksjoner.* (Lecture notes on structural dynamics; in Norwegian - 95 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1967.
- E.2. *En innføring i elementmetoden.* (An introduction to the finite element method; lecture notes in Norwegian - 31 pages). Kursdagene NTH, Trondheim, 1971.
- E.3. *Elementmetoden - en enkel innføring.* (The finite element method - an introduction; in Norwegian - 39 pages). *Konstruktørdagene 1974 - store stålkonstruksjoner.* Norske Sivilingeniørers Forening, 1974.
- E.4. *Svingningsteori - grunnlag.* (An introduction to dynamics; lecture notes in Norwegian - 36 pages). Kursdagene NTH, Trondheim, 1976.
- E.5. *Responsberegning - Metoder.* (Introduction to numerical structural analysis; lecture notes in Norwegian - 52 pages). Kursdagene NTH, Trondheim, 1977.
- E.6. *Dynamic analysis of fixed offshore gravity structures.* (50 pages). Lecture notes, 2nd WEGMENT Graduate School, Trondheim, 1979.
- E.7. *Innføring i (enkel) FORTRAN.* (An introduction to FORTRAN; lecture notes in Norwegian - 93 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1983. (Revised in 1984).
- E.8. *Kort innføring i bruk av VAX/VMS.* (An introduction to VAX/VMS; lecture notes in Norwegian - 50 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1984.  
Co-author: K. Larsen.
- E.9. *Beregningsmetoder og regnemodeller.* (Computational methods and models; in Norwegian - 25 pages). *NIF-kurs: EDB i Bygg og Anlegg*, 1984.
- E.10. *MATRISESTATIKK* (Textbook on Matrix Structural Analysis; in Norwegian - 450 pages). ISBN 82-519-1162-1, Tapir, Trondheim, 1987.  
Also listed as A.7.
- E.11. *MATRISESTATIKK - Oppgavesamling* (Set of problems for matrix structural analysis; in Norwegian - 39 pages). ISBN 82-519-1166-4, Tapir, Trondheim, 1994.
- E.12. *Virtuelt arbeid.* Temahefte i konstruksjonsmekanikk; foreløpig utgave. (Lecture notes in structural mechanics: virtual work; preliminary version, in Norwegian - 47 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1998.
- E.13. *Grunnlag.* Temahefte i konstruksjonsmekanikk; foreløpig utgave. (Lecture notes in structural mechanics: fundamentals; preliminary version, in Norwegian - 60 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1998.
- E.14. *Oppgavehefte i Kmek 2;* foreløpig utgave. (Set of problems in structural mechanics; preliminary version, in Norwegian - 25 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1999.

- E.15 *Beregningsmetoder*. Temahefte i konstruksjonsmekanikk; foreløpig utgave. (Lecture notes in structural mechanics: structural analysis methods; preliminary version, in Norwegian - 89 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1999.
- E.16 *Spenningsberegning i enkle bjelketverrsnitt*. Temahefte i konstruksjonsmekanikk. (Lecture notes in structural mechanics: stresses in simple beam sections; in Norwegian - 67 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1999.
- E.17 *Deformasjoner i staver og bjelker*. Temahefte i konstruksjonsmekanikk; (Lecture notes in structural mechanics: deflections of beams; in Norwegian - 47 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 1999.
- E.18 Revised versions of references E.12, E.13, E.14 and E.15, January 2000.
- E.19 *Elementmetoden for stav- og bjelkesystemer*. Kompendium i konstruksjonsmekanikk. (Lecture notes in structural mechanics: finite element methods for bar- and beam-systems; in Norwegian - 217 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2003.
- E.20 *Innføring i knekning og stabilitet*. Temahefte i konstruksjonsmekanikk. (Lecture notes in structural mechanics: introduction to buckling and stability; in Norwegian - 73 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2003.
- E.21 *Oppgave- og eksempelhefte i elementmetoden for rammer*. (Problems and worked examples for a first course in finite element methods for frames; in Norwegian - 112 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2003.
- E.22 Revised versions of references E.12, E.19, E.20, and E.21, Mai 2004.
- E.23 *FORBINDELSER - Del II: Beregningsgrunnlag for tverrbelastede stav-type-forbindere*. Temahefte i trekonstruksjoner. (Lecture notes in timber structures; theoretical basis for analysis and design of dowel-type fasteners, in Norwegian - 61 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2004.
- E.24 *Fortran 90*. (Lecture notes in Norwegian - 64 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2005.
- E.25 *Programutvikling - teknisk, prosedyreorientert programmering*. (Lecture notes in Norwegian on procedural based Programming of technical problems - 38 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2006.
- E.26 Revised version of reference E.12, March 2006.
- E.27 *Dimensjonering av enkle komponenter - Bruddgrensetilstand, Eurocode 5. Temahefte i trekonstruksjoner*. (Lecture notes in timber structures; design of simple components in ultimate limit state, according to Eurocode 5; in Norwegian - 111 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, January 2007.

- E.28 *Snittkraftdiagrammer i statisk bestemte konstruksjoner*. Temahefte i konstruksjonsmekanikk. (Lecture notes in structural mechanics: section force diagrams in statically determinat structures; in Norwegian - 60 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2007.
- E.29 *FORBINDELSER - Del II-B - Eurocode 5: Beregningsgrunnlag for og dimensjonering av stav-type-forbindere*. Temahefte i trekonstruksjoner. (Lecture notes in timber structures; theoretical basis for analysis and design of dowel-type fasteners according to Eurocode 5, in Norwegian - 117 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, 2007.
- E.30 *Beregningsmetoder for fagverk og rammer - matrisestatikk*. Kompendium i konstruksjonsmekanikk. (Lecture notes in structural mechanics: matrix theory of structures and finite element methods for bar- and beam-systems; in Norwegian - 271 pages; revised and enlarged version of reference E19). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, January 2008.
- E.31 Revised versions of references E.20 and E.27, January/February 2008.
- E.32 Timber bridges. Chapter 15 (pages 209-226) of *Handbook 1 - Timber structures*. Leonardo da Vinci Pilot Project TEMTIS, September 2008.  
<http://fast10.vsb.cz/temtis/en/>  
Also listed as B.26.
- E.33 *Oppgave- og eksempelhefte i beregningsmetoder*. (Problems and worked examples for a first course in finite element methods for frames; in Norwegian - 140 pages; revised and enlarged version of reference E.21). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, January 2009.
- E.34 Revised versions of references E.20 and E.30, January 2009.
- E.35 *Dimensjonering av enkle komponenter - Bruddgrensetilstand, Eurocode 5. Temahefte i trekonstruksjoner*. (Lecture notes in timber structures; design of simple components in ultimate limit state, according to Eurocode 5; in Norwegian - 137 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, January 2009.  
Revised version of reference E.27.
- E.36 *FORBINDELSER - Beregningsgrunnlag for og dimensjonering av stav-type-forbindere. Eurocode 5*. Temahefte i trekonstruksjoner. (Lecture notes in timber structures; theoretical basis for analysis and design of dowel-type fasteners according to Eurocode 5, in Norwegian - 117 pages). Department of structural engineering, Norwegian University of Science and Technology, Trondheim, January 2009.  
Slightly revised version of reference E.29.
- E.37 Eurokode 5 - Prosjektering av trekonstruksjoner. Heldagskurs hos Moelven Limtre AS, 24.09.2009. (One-day course on Eurocode 5, held at Moelven Limtre AS).  
6 PowerPoint presentations of approximately 250 slides.
- E.38 Eurokode 5 - Prosjektering av trekonstruksjoner. Heldagskurs for Multiconsult på Gardermoen, 13.04.2010. (One-day course on Eurocode 5, for Multiconsult AS).  
6 PowerPoint presentations of approximately 250 slides.

- E.39 *MATRISESTATIKK - Statiske beregninger av rammekonstruksjoner* (515 pages; textbook, in Norwegian, on Matrix Structural Analysis, including an introduction to 2nd order theory and linearized buckling). ISBN 978-82-519-2740-6, Tapir Akademisk Forlag, Trondheim, 2011.  
Also listed as A.16.
- E.40 Buckling and nonlinear effects. Lecture notes (40 pages) for a course (organized by COST FT1004) on Timber Engineering at LTH, Lund, Sweden, December 2012.
- E.41 *An engineering approach to FINITE ELEMENT ANALYSIS of linear structural mechanics problems* (656 pages). ISBN 978-82-321-0268-6, Akademika Publishing, Trondheim, 2013.  
Also listed as A.18.
- E.42 *Konstruksjonsmekanikk, Del I - Likevektslære* (294 pages; textbook, in Norwegian, on Statics). ISBN 978-82-450-1685-7, Fagbokforlaget Vigmostad & Bjørke AS, Bergen, 2014.  
Also listed as A.19.
- E.43 *Konstruksjonsmekanikk, Del II - Fasthetslære* (429 pages; textbook, in Norwegian, on Strength of Materials). ISBN 978-82-450-1848-6, Fagbokforlaget Vigmostad & Bjørke AS, Bergen, 2015.  
Also listed as A.20.
- E.44 *Dimensjonering av trekonstruksjoner* (672 pages; textbook, in Norwegian, on design of timber structures). ISBN 978-82-450-2212-4, Fagbokforlaget, Vigmostad & Bjørke AS, Bergen, 2017.  
Also listed as A.21.
- E.45 Structural analysis - an engineering approach to simple and efficient FEM analysis of frame type structures (70 pages pdf booklet); Department of structural engineering, Norwegian University of Science and Technology, Trondheim, December 2023.

## F - MISCELLANEOUS

- F.1. Retningslinjer for utskrivning av tekniske publikasjoner. (Guidelines for writing/typing technical reports; in Norwegian - 19 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1970.
- F.2. Retningslinjer for dokumentasjon og klassifikasjon av datamaskinprogrammer. (Guidelines for documentation and classification of computer programs; in Norwegian - 21 pages). Division of Structural Mechanics, The Norwegian Institute of Technology, Trondheim, 1970.
- F.3. NORSAM - Coding and Documentation (Programming Standard - 24 pages). SINTEF, Trondheim, 1973.
- F.4. PROFIL NYTT - Informasjonsbulletin for databehandling innen byggeteknikk. (An information bulletin for computer application in the building industry). SINTEF Division of Structural Engineering, Trondheim, 1979. Editor.
- F.5. Revisjon av NS 3470 - kommentarer og forslag til rettelselser/endringer. (Comments and suggestions related to the revision of the Norwegian timber code; in Norwegian - 4 pages). January 1997.
- F.6. Revisjon av NS 3470 - kommentarer til høringsutkast datert 09.02.98. (Comments to the proposal for a revised Norwegian timber code; in Norwegian - 4 pages). March 1998.
- F.7. Noen synspunkter på beregnings- og dimensjonerings-regler for takstoler og andre spikerplate-konstruksjoner. (Note on analysis and design of timber roof trusses with punched nail plates; in Norwegian - 5 pages). March 1998.
- F.8. *Eksempler på anvendelser i pionertiden - fra Perleporten til Condeep*. Foredrag ved 40-års jubileum for NTNUs datavirksomhet, november 2002. (PowerPoint presentasjon, 18 "slides").
- F.9. Noen sammenligninger mellom kontroller utført etter NS 3470-1 og EN 1995-1-1. (Note on some comparisons of results obtained by the Norwegian and the European timber codes; in Norwegian - 17 pages). October 2005.
- F.10. *Nye regler for beregning av kapasitet av trekonstruksjoner i EN1995-1-1. Hva betyr de?* Presentasjon i forbindelse med fagkonferansen under TREUKA, mai 2006. (PowerPoint presentasjon, 15 "slides")
- F.11. Tverrstrekk - noen sammenligninger og forslag til endringer i NS 3470-1. (Tension perpendicular to grain - some comparisons and suggestions for revision of NS 3470-1 - the Norwegian timber code; in Norwegian - 7 pages). October 2006.
- F.12. *Shear failure in glulam frames - an actual case*. Presentation at COST E55 meeting in Eindhoven, October 2007. (PowerPoint presentation, 29 slides). Also presented at the KMB project meeting in Oslo, February 1, 2008.
- F.13. *Structural failure in a wider context - an informal discussion*. Presentation at COST E55 meeting in Helsinki, March 2008. (PowerPoint presentation, 10 slides).

- F.14 *Å konstruere med tre*. TREseminar hos Rambøll Norge AS, Trondheim, juni 2008. (PowerPoint presentasjon, 48 “slides”).
- F.15 *Glued laminated timber*. Presentation at TEMTIS meeting in Prague, June 2008. (PowerPoint presentation, 11 slides).  
Co-authors: Kjell Arne Malo and Vanessa Angst-Nicollier.
- F.16 *Timber bridges*. Presentation at TEMTIS meeting in Prague, June 2008. (PowerPoint presentation, 16 slides).
- F.17 *The effect of Eurocode 5 on timber structure design in Norway*. Presentation at TEMTIS meeting in Horsens, September 2008. (PowerPoint presentation, 62 slides).  
Co-author: Kjell Arne Malo.
- F.18 Dimensjonering etter Eurokode 5 - er alt greit? Foredrag på KMB Prosjektdag - NTNU, 16. februar 2009. (PowerPoint presentasjon, 42 “slides”).
- F.19 Kan vi leve med NS-EN 1995-1-1? (Can we live with NS-EN 1995-1-1 {the Eurocode 5 based new timber code}; note in Norwegian - 16 pages)? Notat til trestandard-komiteens medlemmer i forbindelse med overgangen til Eurokode 5, 15.01.2010.
- F.20 How safe is safe enough? The Norwegian timber code versus Eurocode 5. Lecture at COST E55 meeting at Coimbra, Portugal, March 25-26, 2010. (PowerPoint presentation, 34 slides)
- F.21 Kommentarer til EN 1995-1-1. (Comments on EN 1995-1-1, note in Norwegian - 4 pages). Innspill til møte i trestandardkomiteen, 13.10.2010.
- F.22 Om skjær, og trykk normalt fibrene i limtre. (About shear and compression perpendicular to grain in glulam, note in Norwegian – 7 pages), Desember 2011.
- F.23 Beregning/dimensjonering av limtredeger i hyttetak. Note (in Norwegian), datert desember 2011.
- F.24 Snow load on cylindrical roofs in the Nordic countries. Note (11 pages) dated 22.11.2016.
- F.25 Kritisk bruk av programverktøy ved konstruksjonsberegninger. Foredrag ved Multiconsults nettverkssamling, Gardermoen, februar 2017. (PowerPoint presentation, 56 slides).
- F.26 Static analysis and design of timber beams for which stability is not a problem. Note (14 pages). December 2018.
- F.27 Brukollapsen ved Tretten - hvorfor, hvordan og hva nå. Note (21 pages) in Norwegian. January 2023.
- F.28 The collapse of Tretten bridge - why and how. Note (29) pages. June 2023.

**G - DEBATES etc.**

- G.1. *Ad byggevirksomheten på Gløshaugen.* Leserinnlegg i Universitetsavisa, 27. november 1997.
- G.2. *Om økonomi, dugnad og SINTEF-B.* Leserinnlegg i Universitetsavisa, 12. februar 1998.
- G.3. *Sivilingeniørutdanning på ville veier.* Notat (13 sider), august 2000.
- G.4. *Om vekttall, eksamen og karakterer.* Notat (6 sider), april 2001.
- G.5. *Hva vil vi med NTNU?* Leserinnlegg i Adresseavisen, 24. september 2001.
- G.6. *Dersom kvalitet er viktig.* Leserinnlegg i Universitetsavisa, 1. november 2001.
- G.7. *Tanker om høyere teknisk utdanning i Norge.* Foredrag ved Norsk Ståldag 2002, september 2002.  
(PowerPoint presentasjon, 11 “slides”).
- G.8. *Kvalitetsreformen reduserer kvaliteten.* Leserinnlegg i Universitetsavisa, 16. januar 2004.
- G.9. *Om NTNU og tog som har gått.* Leserinnlegg i Universitetsavisa, 2. juli 2004.
- G.10. *De og oss.* Leserinnlegg i Universitetsavisa, 4. oktober 2004.
- G.11. *Høyt spill om NTNU.* Kronikk i Adresseavisa, 6. desember 2004.
- G.12. *Om Klaging, Konting og Kvalitet.* Leserinnlegg i Universitetsavisa, 9. september 2005.
- G.13. *NTNU og kvalitet.* Leserinnlegg i Universitetsavisa, 19. april 2006.
- G.14. *Skråblikk på NTNU.* Innlegg til spalten “Fra hornet på veggen” i Univeristetsavisa, 1. februar, 2007.
- G.15. *Tanker på tampen.* Leserinnlegg i Universitetsavisa, 16. januar 2009.
- G.16. *Tanker på tampen, del II.* Leserinnlegg i Universitetsavisa, 22. januar 2009.
- G.17. *Ubrukelig karaktersystem.* Leserinnlegg i Universitetsavisa, 9. februar 2009.

## H - EUROCODE 5 – next generation

### N documents under CEN-TC 250-SC5/WG 10

- H.1. **N57** NO Proposal SLS deflection EC5 V2  
Scetion 9 Serviceability limit state (3 pages) - April 2019
- H.2. **N58** Background NO Proposal SLS deflection V2  
Calculations of deflections in Eurocode 5 (8 pages) - April 2019
- H.3. **N61** NO Proposal SLS deflection EC5 V3  
Scetion 9 Serviceability limit state (3 pages) - April 2019
- H.4. **N66** Proposal SLS deflectio NO Sept 19  
Scetion 9 Serviceability limit state (4 pages) - September 2019
- H.5. **N80** NO Proposal SLS deflection Rev 3  
Scetion 9 Serviceability limit state (3 pages) - September 2019
- H.6. **N81** Background SLS deflection NO Rev 1  
2nd generation of Eurocode 5 - Calculation of deflections (11 pages) - March 2020
- H.7. **N86** Example structures - Kolbein B  
The effect of stiffness on internal force distribution (4 pages) - June 2020

### N documents under CEN-TC 250-SC5/WG 3

- H.8. **N90** Personal comments on FEM and the structural Eurocodes (2 pages);  
March 2019
- H.9. **N108** Comments and proposals on instability in timber structures,  
analyss and design (41 pages) - May 2019
- H.10. **N109** Geometrical imperfections in timber structures, shape - size - time;  
(8 pages) - July 2019
- H.11. **N111** Annex X (Informative): Structural modelling and analysis (7 pages);  
June 2019
- H.12. **N113** Timber column design (14 pages) - August 2019
- H.13. **N146** Norwegian proposal: Section 8 - Ultimate limit state (12 pages);  
February 2020
- H.14. **N147** Section 7 Structural modelling and analysis (Norwegian proposal);  
(16 pages) - February 2020
- H.15. **N169** Eurocode 5 - Structural analysis and ULS verification og members prone  
to instability (20 pages) - April 2020
- H.16. **N193** Timber column design - by simplified (linear) and general (nonlinear)  
methods (16 pages) - August 2020
- H.17. **N217** Eurocode 5 and stability (32 pages) - December 2020

- H.18 **N257** Personal view on important issues in Eurocode 5 related to structural analysis and ULS verification of members prone to instability (9 pages); February 2021
- H.19 **N264** Lateral torsional buckling (17 pages) - March 2021
- H.20 **N267** Proposal: 7 Structural analysis (12 pages) - April 2021
- H.21 **N270** Examples illustrating and suggesting solutions to key issues of Clause 7 and 8 of Eurocode 5 (17 pages) - April 2021
- H.22 **N305** Structural analysis and stability in the next generation of Eurocode 5; a personal criticism of Milestone 4 proposals; Modified version (9 pages); August 2021
- H.23 **N306** FEM and Eurocode 5 (19 pages) - June 2021
- H.24 **N313** Proposal: Alternative Clause 7 - Structural analysis (10 pages) September 2021  
Co-author: Georg Hochreiner
- H.25 **N314** Annex F (informative) - Structural modelling and analysis - effective lengths (13 pages) - September 2021  
Co-author: Georg Hochreiner
- H.26 **N315** Proposal: Alternative Clauses 8.1.6, 8.17 and 8.4 (6 pages) - September 2021  
Co-author: Georg Hochreiner
- H.27 **N329** Revised version of **N315** (7 pages) - October 2021  
Co-author: Georg Hochreiner
- H.28 **N335** A note on unresolved issues in Eurocode 5 in relation to structural analysis and buckling (23 pages) - November 2021
- H.29 **N342** Alternative proposal for Clause 8.2 (6 pages) - December 2021
- H.30 **N344** On the threshold value of the relative slenderness ratio (6 pages) - January 2022
- H.31 **N363** Comments on structural analysis and buckling verification in Eurocode 5 (15 pages) - February 2022
- H.32 **N391** Timber stiffness in ULS - what the numbers show (21 pages) - June 2022
- H.33 **N418** Eurocode 5 - Structural analysis and ULS verification of member buckling; what the numbers show (88 pages) - November 2022
- H.34 **N484** CEN ENQ comments on selected clauses of PrEN 1995-1-1 (4 pages); December 2023