

<b>DEPARTMENT OF STEEL AND TIMBER STRUCTURES</b>
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## I. STAFF

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## II. EQUIPMENT

### II.1 Teaching and Research Laboratories

The Department performs educational activities in the field of steel and timber structures and bridges at the Faculty of Civil Engineering. The main part of its teaching is aimed at the

branches of Civil Engineering and Architecture, Structural Engineering and Water Management. Courses are offered in the theory, design, construction, erection and experimental investigation of building structures, bridges, and special engineering constructions with steel, timber and composite load-bearing systems.

The Department has a mechanical workshop for working up metals and timber, a welding shop, and testing equipment for materials, as well as plane and spatial structural models, members and connections. The laboratory is equipped to perform experiments with loads up to 2500 kN.

## II. 2 Special Measuring Instruments and Computers

Strain gauge instrumentation - Hottinger Baldwin Messtechnik, connected with computer-aided analyses of experimental results.

Mechanical and hydraulic testing machines for tension and compression static loads up to 1000 kN and in torsion up to 2 kNm.

## III. TEACHING

### III. 1 Graduate Study

#### Obligatory subjects

Subject	Semester	Hours per Week		Lecturer
		Lectures	Seminars	
Steel and Timber Structures	5	4	2	J. Brodniansky F. Draškovič
Steel Members	5	4	2	I. Baláž
Steel Members	5	2	2	I. Baláž J. Brodniansky
Steel Structures	6	2	2	Z. Agócs J. Brodniansky
Steel Structures	6	3	2	Z. Agócs
Timber Structures I.	7	2	2	F. Draškovič
Timber Systems	7	2	2	F. Draškovič
Timber Systems	7	2	1	F. Draškovič
Timber Systems	8	2	1	F. Draškovič
High-Rise and Long-Span Steel Structures	8	2	1	Z. Agócs J. Brodniansky
Steel Bridges I.	8	3	2	J. Lapos
Composite Structures	8	2	2	J. Lapos
Stability and Plasticity of Steel Structures	9	2	2	I. Baláž J. Lapos
Steel Bridges II.	9	2	2	J. Lapos
High-Rise and Long-Span Steel Structures	9	2	2	Z. Agócs J. Brodniansky
Special Seminar	9	0	3	Z. Agócs R. Ároch I. Baláž A. Benková J. Brodniansky J. Čierna

Design Studio	9	0 - 5	F. Draškovič J. Lapos J. Sandanus Z. Agócs J. Brodniansky
Diagnosis and Reconstruction of Steel and Timber Structures	10	2 - 1	Z. Agócs F. Draškovič
Timber Structures II.	10	3 - 2	F. Draškovič
Diagnosis and Reconstruction of Steel and Timber Structures	10	3 - 2	Z. Agócs F. Draškovič
Thin-Walled Steel Structures	10	3 - 2	I. Baláž
Advanced Steel and Timber Structures	10	3 - 2	Z. Agócs F. Draškovič
Special Seminar	10	0 - 5	Z. Agócs R. Ároch I. Baláž A. Benková J. Brodniansky J. Čierna F. Draškovič J. Lapos J. Sandanus
Design Studio	10	0 - 5	Z. Agócs J. Brodniansky

#### Optional Subjects

Subject	Semester	Hours per Week		Lecturer
		Lectures	Seminars	
Advanced Timber Structures	8	2	2	F. Draškovič
Advanced Steel Structures	9	2	2	Z. Agócs V. Kalousek
Hydrotechnical Steel Structures	9	2	1	J. Lapos
Special Timber Structures	9	2	1	F. Draškovič
Technological Steel Structures	10	2	2	V. Kalousek
Experimental Verification of Building Structures	10	1	3	V. Kalousek

#### **IV. RESEARCH TARGETS**

The research activity of the Department is devoted to problems involving:

- materials and connections (wood rheology, glued timber connections, protection of materials),
- stability of columns and frames, stability of plates, thin-walled systems (shear lag, torsion, distortion),
- new types of construction design and their actual behaviour (cable structures, space trusses, crane runways, composite structures, glued timber structures),
- diagnosis, reconstruction and strengthening of structures,
- computers in the research and design of structures.

## V. RESEARCH PROJECTS

1. VEGA 1/7139/20: Development of New Load-Bearing Systems of Large Spans and Heights Considering the Main Parameters, Including the Environment. Innovation of Reconstruction Methods for Important Structures in the Sense of Contemporary Architectural, Engineering and Ecological Requirements (Prof. Agócs)
2. VEGA 1/7137/20: Fatigue and Life Expectancy of Steel and Composite Steel-Concrete Bridges and Dynamically Loaded Engineering Structures (Assoc. Prof. Lapos)
3. VEGA 1/7141/20: Stability and Strength Problems of Thin-Walled Beams with Deformable Cross-Sections (Prof. Baláž)
4. VEGA 1/7118/20: Actual Behaviour of Timber and Combined Load-Bearing Members and Structures and Specific Timber Properties (Assoc. Prof. Draškovič)

## VI. COOPERATION

### VI.1 Cooperation in Slovakia

1. Doprastav Bratislava
2. Dopravoprojekt Bratislava
3. Hydrostav Bratislava
4. Ingsteel Bratislava
5. Steel OK Levice
6. SPP, SLOVTRANSGAZ Nitra
7. SPP, SLOVTRANSGAZ Senica
8. VSŽ, Mostáreň, Košice
9. Slovenské elektrárne Bratislava
10. ŠDVÚ Bratislava
11. Stavro Bratislava
12. Ing. Pavol Nádaský, PhD, Trnava
13. Vodárne a kanalizácie Bratislava
14. SÚTN Bratislava
15. Vihorlat, a.s. Snina
16. HUPRO s.r.o., Bratislava
17. STANLY, Žilina
18. Recky Bratislava
19. ELBEVA v.o.s., Dunajská Streda
20. Výskumný ústav zvaračský, Bratislava
21. ISPO spol. s r.o., Prešov
22. Archstudio Bobek & Jávorka

### VI.2 International Cooperation

1. ČVUT Prague, Czech Republic
2. Faculty of Civil Engineering, VUT Brno, Czech Republic
3. University of Stuttgart, Germany
4. Technische Universität, Munich, Germany
5. Technische Universität, Cottbus, Germany
6. Bauhaus Universität, Weimar, Germany

7. Technische Universität, Graz, Austria
8. HTWS, Zittau, Germany
9. Technische Universität, Vienna, Austria
10. TU Budapest, Hungary
11. University of Miskolc, Hungary
12. Politechnika Szczeczińska, Poland
13. Politechnika Gdanska, Poland
14. Politehnica Timisoara, Romania
15. ASTRON Building Systems, Luxembourg and the Czech Republic
16. Academy of Steel Construction, Sheffield, UK
17. Application Centre for Mixed Building Technology, Innsbruck, Austria
18. University of Liège, Belgium
19. Foundation University of Oviedo, Spain
20. Technical Chamber of Greece, Athens, Greece
21. Steel Construction Institute, Ascot, UK
22. Epistemics Ltd, Sheffield, UK

### **International Projects**

1. Leonardo da Vinci: Structural Steelwork Eurocodes - Development of a Trans-National Approach 2 - SSEDTA 2
2. Action Austria - Slovakia: The Use of Timber in Construction As a Contribution to Improvement of the European Eco-System

### **VI. 2. 1 Visitors to the Department**

1. Assoc. Prof. Viktor Kabanov, PhD., TU Kursk, Russia, April 24 - May 12, 2001
2. 26 participants in the International Danube Bridges 2001 Conference, September 12, 2001
3. Prof. Ziolkowski Jerzy, TU Gdańsk, Poland, November 7 - 10, 2001
4. Ewa Supernak, TU Gdańsk, Poland, November 7 - 10, 2001
5. Martin Seidner, AMB-T Innsbruck, Austria, November 7 - 12, 2001
6. Prof. Zbigniew Mendera, TU Cracow, Poland, November 7 - 10, 2001
7. Prof. Jörg Schlaich, TU Stuttgart, Germany, December 13 - 15, 2001

### **VI. 2. 2 Visits of Staff Members and Postgraduate Students to Foreign Institutions**

1. Z. Agócs, ČVUT Prague, Czech Republic, Jan. 5, 2001
2. Z. Agócs, ČVUT Prague, Czech Republic, Jan. 22 - 23, 2001
3. J. Brodniansky, Munich, Germany, Jan. 17 - 18, 2001
4. R. Ároch, Innsbruck, Austria, Jan. 25 - 28, 2001
5. M. Chladná, Innsbruck, Austria, Jan. 25 - 28, 2001
6. M. Chladná, Gdansk, Poland, June 5 - 8, 2001
7. E. Chladný, Gdansk, Poland, June 5 - 8, 2001
8. P. Tatarko, Weimar, Germany, July 30 - Aug. 11, 2001
9. S. Rendek, London, UK, 3 months
10. J. Rosenberg, Vienna, Austria, 6 months
11. J. Brodniansky, Prague, Czech Republic, Oct. 2, 2001
12. J. Brodniansky, Nagoya, Japan, Oct. 6 - 13, 2001
13. Z. Agócs, Nagoya, Japan, Oct. 6 - 13, 2001
14. R. Ároch, Innsbruck, Austria, Nov. 25 - 28, 2001

15. M. Chladná, Innsbruck, Austria, Nov. 25 - 28, 2001

### VI. 2. 3 Membership in International Associations

1. J. Brodniansky, IASS - International Association for Space Structures
2. Z. Agócs, IASS - International Association for Space Structures
3. Baláž, IABSE - International Association for Bridges and Structural Engineering
4. Baláž, ASCE - American Society for Civil Engineering
5. J. Lapos, SSRC - Structural Stability Research Council

## VII. THESES

### VII. 1 Graduate Theses

No.	Student's name	Title	Supervisor
1.	Peter Bestro	Design of a Steel Structure of a Multi-Purpose Building	Z. Agócs
2.	Radoslava Ridošková	Stability of Steel Girders	I. Baláž
3.	Peter Antal	Design of a Steel Structure of an Administrative Building	A. Benková
4.	Marek Danišík	High-Rise Building of the Polus Centre in Bratislava	J. Brodniansky
5.	Ondrej Jelenčiak	Baumax in Nitra	J. Brodniansky
6.	Eva Klejová	TESCO in Trnava	J. Brodniansky
7.	Miroslav Vilček	Wholesale for CCB <sub>r</sub> Businessmen in Bratislava	J. Brodniansky
8.	Michal Magula	Use of Carbon Fibers in Timber Structures	F. Draškovič
9.	Ladislav Talda	Design of an Elevated Road in Dúbravka – Devínska Nová Ves Over Highway D2	J. Lapos
10.	Nikodém Zámečník	Košická Bridge – Design of Danube Bridge in Bratislava in Extension of Košická Street	J. Lapos
11.	Roman König	Slim Floor as a Modern Floor Structure – Calculation According to EN 1993 and EN 1994	R. Ároch
12.	Stanislav Kühn	Semi-Rigid Steel and Composite Joints – Calculation According to the Component Method	R. Ároch
13.	Denisa Zimanyiová	Canopy over a Multi-Purpose Structure	J. Čierna
14.	Juraj Lovás	Gymnasium in Stupava	J. Sandanus
15.	Andrea Siekelová	Study of Timber Load-Bearing Systems for a Family House	J. Sandanus
16.	Rudolf Voletz	Parameter Study and Diagrams for Composite Timber and Concrete Structures	J. Sandanus

### VII. 3 Doctoral Dissertation

No.	Student's name	Title	Supervisor
1.	Rudolf Ároch	Behaviour of Steel Frames with Rigid and Semi-Rigid Joints	J. Lapos
2.	Viktor Kabanov	Reliability of Laminated Timber Elements Subjected to Fatigue Loading (in Russian)	F. Draškovič

## VIII. OTHER ACTIVITIES

### VIII. 1 Special Lectures

1. Agócs, Z.: New Bridges Across the Danube: Mária Valéria Bridge, Košická Bridge Bratislava (in Slovak). 39th National Conference on Steel Structures: Hustopeče 2001. Hustopeče, Czech Republic. December 6, 2001
2. Baláž, I.: Fillet Steel and Aluminium Alloy Welds (in Slovak). 39th National Conference on Steel Structures: Hustopeče 2001. Hustopeče, Czech Republic. December 6, 2001
3. Benková, A.: METAL – A New Dimension in Architecture. Professional Seminar. Kal-Zip Aluminium Roof System. May 18, 2001. SUT Bratislava
4. Brodniansky, J.: 50 Years of the Department of Steel and Timber Structures. 27th Conference (with international participation) on Theoretical and Construction Problems of Steel and Timber Structures. November 8 - 9, 2001. Častá Píla
5. Brodniansky, J.: Load-Bearing Steel and Glass Structures (in Slovak). 39th National Conference on Steel Structures: Hustopeče 2001. Hustopeče, Czech Republic. December 6, 2001

### VIII. 2 Contracts

1. Technical Aid During the Removal of a Short Circuit in a Cathode Cover in Rimavská Sobota – Dúžava. – Z. Agócs
2. Technical Aid and Proposed Structural Design for the Pipeline Support of the Blh Bridging – Z. Agócs
3. Košická Bridge – Bratislava. Study of Steel Parameters, Study of Web Stability, Consulting – Z. Agócs
4. Expert Survey of the Behaviour of Composite Girders of the MASSIVE Wholesale Warehouse for Decorative Lighting in Šamorín – J. Lapos
5. Strain Gauge Calibration for X60 and X70 High-Strength Steels – Z. Agócs
6. Proposed Measurement System and Assessment of Preliminary Mechanical Stress During Repair of Defects in Anchor Blocks at the Údoč Bridge - Z. Agócs
7. Proposed Measurement System and Assessment of Preliminary Mechanical Stress in Lines I and II DN 1200 in the Locality of Slanec – Z. Agócs
8. Check of Mechanical Stress in Line III DN 1200 in the Locality of Slanec – Z. Agócs
9. Conference on Danube Bridges 2001 – Z. Agócs
10. Expert Survey of the Supports of Crane Girders in the RC Column Cantilevers of the OFZ Production Building in Široká – V. Kalousek
11. Proposed Measurement System of Surface Mechanical Stress in the Pipe Webs in the Locality of Bukovec – Z. Agócs

12. Strength Control of the Service Life and Depth Diagnoses of Two Bridges on the TP DSTG. – Z. Agócs
13. Control Inspection of SPP DSTG Bridges – Z. Agócs
14. Preparation and Proposal for the Repair of Defects in Anchor Block of Line II DN 1200 B – Z. Agócs
15. Technical Aid During the Removal of a Short Circuit in a Cathode Cover in Košice – Seňa TP I. – Z. Agócs
16. Proposed Action for the Operation of SPP DSTG Bridges – Z. Agócs
17. Technical Aid During the Removal of a Short Circuit in a Cathode Cover in Rimavská Sobota – Rimavské Janovce – Z. Agócs
18. Košická Bridge – Bratislava. Technical Qualitative Requirements. Calculation of Vibration of Cable Hangers. Stability of Webs, Consulting – Z. Agócs
19. Technical Aid During the Removal of a Short Circuit in a Cathode Cover in Lučenec – Panické Dravce and Strength Calculation – Z. Agócs
20. Expert Survey of the Resistance of 6 Elements of Steel Arch Structures – J. Lapos
21. 27th Meeting of Experts on Steel Structures – J. Brodniansky
22. Common European Standards for the Design of Civil Engineering Structures - EUROCODES – I. Baláž
23. Technical Aid During the Removal of a Short Circuit in a Cathode Cover in Žabokreky nad Nitrou, Proposed Lift and Strength Calculation of Pipe During Lifting – Z. Agócs
24. Technical Aid and Consulting: Repair and Statical Check of the V279-1x110kV Line at Križovany/Šaľa and Survey of the Present State of Deformed Steel Structures in an Electrical Network – J. Brodniansky
25. Technical Aid in the Design of Load-Bearing Structures of the Acoustic Claddings of the New Slovak National Theater Building – J. Brodniansky
26. Technical Aid for AUPARK Bratislava – J. Brodniansky
27. Technical Aid (Inspection of Selected Details of Steel Structures) at AUPARK Petržalka – J. Brodniansky
28. Technical Aid and Consulting in the Design and Realisation of Load-Bearing Structures for the Edscha Company in Veľký Meder – J. Brodniansky
29. Review of the Scope of the Conference and Proceedings of WELDING 2001 and Proposed Recommendation – Z. Agócs
30. Calculation of the Critical Buckling Lengths of a Tapered Frame – I. Baláž

## IX. PUBLICATIONS

### IX.1 Journals

- [1] BALÁŽ, I.: ENV – Eurocodes. Present State of Their Incorporation into the STN System and Failure to Use Them. Projekt a stavba 3, No.9, 2001, pp. 3-6
- [2] BALÁŽ, I.: EN – Eurocodes. Prepared European Standard – Its Creation and Means of Implementation (in Slovak). Projekt a stavba 3, No.10, 2001, pp. 3-6
- [3] BRODNIANSKY, J. - AGÓCS, Z.: New Steel Structures (in Slovak). Eurostav 7, November 2001, Vol.7, pp. 20-24
- [4] BRODNIANSKY, J.: 50 Years of the Department of Steel and Timber Structures (in Slovak). Projekt a stavba, Vol.2, 2001, No.12, pp. 3 – 6
- [5] BRODNIANSKY, J.: Prof. Dr. - Ing. Jörg SCHLAICH, Drs.h.c. (in Slovak). Projekt a stavba, Vol.2, 2001, No.12, inside front cover



- [6] DRAŠKOVIČ, F.: Reconstruction of Timber Roofs (in Slovak). Stavba, Vol. IV., Nos. 7-8, 2001, pp. 44 – 45
- [7] CHLADNÝ, E. – CHLADNÁ, M.: Some Stability Problems in Reconstruction of the Maria Valeria Bridge Across the Danube. Zeszyty naukowe politechniki Gdańskiej No. 56, Wydawnictwo Politechniki Gdańskiej, pp. 19-26
- [8] KALOUSEK, V.: Eurocodes for the Design of Bolted Connections of Steel Structures (in Slovak). Stavba No. 4, Vol. IV, 2001
- [9] KALOUSEK, V.: Roof and Wall Steel Claddings of Buildings (in Slovak). Stavba No. 6, Vol. IV, 2001
- [10] LAPOS, J. - NAGY, L.: Work During the Erection of the Košická Bridge in Bratislava (in Slovak). OK Ocelové konstrukce, Vol. 3, 2001, No. 2, Časopis pro vědu, techniku a strategii. V-KOMA s.r.o., Ostrava - Zábřeh, Special Annex Bridges, pp. XV - XVIII
- [11] SANDANUS, J.: Can a Timber-Concrete Floor Be Better than Floors Made from Other Materials? (in Slovak). ASB, 6/2000, pp. 34-35 (issued in January 2001)
- [12] SANDANUS, J.: Use of the Doka System for Highway Bridge Construction (in Slovak). Projekt a stavba 12/2001, pp. 13-15

## IX. 2 Books and Textbooks

- [1] AGÓCS, Z.: Chapters 2, 4, 9, 11 In: Team of Authors: Construction and Design (in Slovak). Third Part of Textbook for the Course on Welding Methods for Engineers. Postgraduate Course for European Welding Engineers. VÚZ Bratislava, ZEROSS Ostrava, May 2001
- [2] AGÓCS, Z.: Renovation of the Mária Valéria Bridge Across the Danube Between Štúrovo and Ostrihom (in Slovak). ALMANAC SKSI, 2001, Bratislava (in print)
- [3] BALÁŽ, I.: Design of Aluminium and Aluminium Alloy Structures (in Slovak). Chapter 13, In: Team of Authors: Construction and Design (in Slovak). Third Part of Textbook for the Course on Welding Methods for Engineers. Postgraduate Course for European Welding Engineers. VÚZ Bratislava, ZEROSS Ostrava, May 2001. 48 pp.
- [4] BALÁŽ, I.: ENV-EUROCODES, Preliminary European Standards for the Design of Civil Engineering Structures (in Slovak). Part 1. Metodické centrum, 4 Tomášiková, Bratislava. November 2001, pp.1-60
- [5] BALÁŽ, I.: International and National Standardisation (in Slovak). Stavebnícka ročenka 2001, JAGA, 18 pp.
- [6] CHLADNÁ, M.: SSEDTA - Structural Steelwork Eurocodes - Development of a Transnational Approach; Lecture 11b - Fire Engineering Design of Composite Structures, CD-ROM, pp. 1 – 38
- [7] SEIDNER, M. - ÁROCH, R.: SSEDTA – Structural Steelwork Eurocodes – Development of a Transnational Approach, Lecture 9 (with Annexes a, b, b1, b2 and b3) – Composite Joints, CD-ROM 188 pp.
- [8] Staff of Department.: Department of Steel and Timber Structures 1951 – 2001 (in Slovak). KKDK SvF STU Bratislava, November 2001, 141 pp.
- [9] Department Staff: Common European Standards for the Design of Civil Engineering Structures. ENV – Eurocodes – General Module EC (EC1, EC2, EC3, EC4, EC5, EC6, EC7, EC8, EC9) (in Slovak). Part I. SvF STU Bratislava
- [10] Team of Authors: Eurocodes. Preliminary European Standards for the Design of Civil Engineering Structures (in Slovak). Handbook. Ministerstvo výstavby a regionálneho rozvoja SR Bratislava

### IX.3 Conferences

- [1] AGÓCS, Z. – BRODNIANSKY, J.: Reconstruction of the Supports of Transit Gas Pipelines for the Blh Bridge (in Slovak), In: Proceedings of Conference on the Construction and Renovation of Buildings, Part 2, Košice, March 21, 2001, pp. 59-64
- [2] AGÓCS, Z. - BRODNIANSKY, J.: Inspection of the Actual Behaviour of Steel Structures of a Transit Gas Pipeline (in Slovak), In: Proceedings of 27th Conference (with international participation) on Theoretical and Constructional Problems of Steel and Timber Structures, November 8 - 9, 2001, Častá Píla, pp. 87-90
- [3] AGÓCS, Z. - MAŤAŠČÍK, M.: New Bridges Across the Danube: Štúrovo – Ostrihom and Košická Bridge in Bratislava (in Slovak), In: Proceedings of the 38th National Hustopeče 2001 Conference on Steel Structures, Hustopeče, Czech Republic, December 6, 2001 (in print)
- [4] AGÓCS, Z. - VOLETZ, R.: New Structures with Pin Joints (in Slovak), In: Proceedings of 27th Conference (with international participation) on Theoretical and Construction Problems of Steel and Timber Structures, November 8 - 9, 2001, Častá Píla, pp. 11-16
- [5] AGÓCS, Z. . BRODNIANSKY, J.: Inspection and Design of a Cable Bridge Structure (in Slovak), In: Proceedings of Conference on Construction and Renewal of Buildings, Part 1, Košice, March 21, 2001, pp. 51-58
- [6] AGÓCS, Z.: Bridge – An Engineering Structure or Work of Art?, In: Proceedings of 4<sup>th</sup> International Conference on Bridges Across the Danube 2001, September 13-15, 2001 Bratislava, pp. 23-29
- [7] AGÓCS, Z.: Cable Structures and Cable as a Structural Element. In: Proceedings of International Symposium on Theory, Design and Realization of Shell and Spatial Structures, IASS, October 9 - 13, 2001, Nagoya, Japan, pp. 120-122, extended abstract and 8 pages on CD
- [8] AGÓCS, Z.: New Structures of Multi-Purpose Buildings (in Slovak), In: Proceedings of Seminar on Development Trends in Steel Structures, Jahodná pri Košiciach, June 28-29, 2001, pp. 19-24
- [9] AGÓCS, Z.: Principles of Design of Welded Steel Structures (in Slovak), In: Proceedings of 29th WELDING 2001 National Conference and Discussion Forum, Tatranská Lomnica, November 7-9, 2001, pp. 5-15
- [10] AGÓCS, Z.: Some Theoretical Problems of Cable Structures, In: Proceedings of 10th International Scientific–Technical Conference on Metal Structures – Gdańsk 2001, Volume 2, Gdańsk, June 6-8, 2001, pp. 11-19
- [11] ÁROCH, R.: Design of Steel Frames Considering Various Aspects of Their Joint Behaviour (in Slovak), In: Proceedings of Seminar on Development Trends in Steel Structures, Jahodná pri Košiciach, June 28-29, 2001, pp. 25-30
- [12] ÁROCH, R.: Semi-Rigid Composite Joints (in Slovak), In: Proceedings of 27th Conference (with international participation) on Theoretical and Construction Problems of Steel and Timber Structures, November 8 - 9, 2001, Častá Píla, pp. 53-56
- [13] BALÁŽ, I. – KOLEKOVÁ, Y.: Fillet Welds of Aluminium Alloy Structures Loaded by an Eccentric Force (in Slovak), In: Proceedings of 27th Conference (with international participation) on Theoretical and Construction Problems of Steel and Timber Structures, November 8 - 9, 2001, Častá Píla, pp. 115-118
- [14] BALÁŽ, I. – KOLEKOVÁ, Y.: Inspection of the Strength of Steel Fillet Welds According to the European Standard and Six National Standards (in Slovak), In: Proceedings of Conference (with international participation) on Statical-Constructional and

- Constructional-Physical Problems of Civil Engineering Structures, Tatranská Lomnica, November 28-30, 2001
- [15] BALÁŽ, I.: Lateral-Torsional Buckling of Timber Girders (in Slovak), In: Proceedings of Conference on Construction and Renewal of Buildings, Košice, March 21, 2001, pp. 27-32
- [16] BALÁŽ, I.: Fillet Steel and Aluminium Alloy Welds (in Slovak), In: Proceedings of the 38th National Conference on Steel Structures: Hustopeče 2001, Hustopeče, Czech Republic, December 6, 2001 (in print)
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