

<b>DEPARTMENT OF BUILDING SERVICES</b>
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## II. EQUIPMENT

### II.1 Teaching and Research Laboratories

Laboratory - Trnávka

### II.2 Special Measuring Instruments and Computers

Bruel & Kjer Thermal Comfort Analyzer

Anemometer

Izomet 104

Globe Meter

Measuring Unit

Computer room:

PC computers: DTK 486, Escom 368, Eurocomp-Pentium, Pentium 200

Plotter, printer

## III. TEACHING

### III.1 Graduate Study

Subject	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Technical Equipment of Buildings	4	2	2	Hrbatý, Tonhauzer
Technical Equipment of Buildings II	5	2	1	Petráš, Lulkovičová
Technical Equipment of Buildings III	6	2	1	Székyová, Boďo
Internal Water and Gas Piping	7	3	2	Valášek, Tonhauzer
Internal Drainage	7	2	1	Valášek
Ventilation	7	2	2	Székyová
Heating I	7	2	2	Lulkovičová
Heating II	8	2	2	Petráš
Design IV	7	0	3	Peráčková
Design V	8	0	4	Kalús
Design VI	9	0	4	Székyová
Design VII	10	0	4	Lulkovičová
Air Conditioning	8	2	2	Székyová
Computer Design Systems	8	0	3	Ihradský, Magyar
Measuring and Control I	8	2	2	Ehrenwald
Measuring and Control II	9	2	2	Ehrenwald
Energy Supply of Buildings	8	2	1	Takács
Excursion	9			Valášek
Building Control Systems	10	2	2	Ehrenwald

Special Seminar	9,10	0-2	Peráčková, Kalús, Székyová
Heating Audit	10	1-3	Petráš
Technical Equipment of Buildings	3	1-1	Peráčková, Valášek
Heating Systems	9	2-2	Petráš
Industrial Installations	9	2-2	Hrbatý
Renewable Energy in Technical Equipment of Buildings	9	2-2	Lulkovičová, Takács
Ventilation & Air Conditioning Systems I	9	2-2	Leimberger
Industrial Air Conditioning Systems II	9	2-2	Székyová
Sanitation Audit	10	1-3	Peráčková
Ventilation Audit	10	1-3	Leimberger
Combustion Technology	10	2-1	Lulkovičová
Fire Engineering – Technical Equipment Of Buildings	9	2-2	Kucbel
Diploma Seminar Internships	10		Peráčková, Kalús, Székyová
Technologic Equipment	9	2-2	Tonhauzer
Sanitary-Technical Equipment	10	2-1	Valášek
Operation of Air Conditioning Systems	10	2-1	Székyová

#### IV. RESEARCH TARGETS

- measuring and control systems in heating
- indoor climate and indoor air quality of buildings
- modernization of sanitation and ventilation
- rational use of fuels and energy

#### V. RESEARCH PROJECTS

1. Economizing on Energy Consumption and the Thermal State of Heated Interiors via Application of Measuring, Control and Automation Techniques (3 years, Prof. Petráš)
2. Indoor Climate and Building Services (2 years, Petráš)

#### VI. COOPERATION

##### VI.1 Cooperation in Slovakia

1. VVÚPS-NOVA, Bratislava
2. Institute of Construction and Architecture, Slovak Academy of Science, Bratislava
3. Geberit-Slovakia, Bratislava
4. Armaturex, Ltd., Bratislava

5. Slovak Institute of Technical Normalization, Bratislava
6. Slovak Armature, Myjava
7. Technical Testing Institute, Piešťany
8. Ministry of Town Planning and Construction of the Slovak Republic, Bratislava
9. Technical University, Košice
10. Technical University, Žilina
11. The Ministry of the Environment of the Slovak Republic
12. Slovgoterm Bratislava
13. Slovak Health Spa - Piešťany
14. Probugas Bratislava
15. Slovak Metrology Institute Bratislava
16. Tabak Bratislava
17. Slovak Gas Company SPP Bratislava
18. SEA - Slovak Energy Agency
19. SSTP - Slovak Society of Environmental Techniques

## **VI.2 International cooperation**

1. ENSI - Energy Saving International AS, Oslo, Norway
2. Sanitartechnik Eisenberg GmbH, Eisenberg, Germany
3. Hansa, AG, Burglengenfeld, Germany
4. Geberit, AG, Rottenbrunn, Germany
5. GAS, s.r.o. Prague, Czech Republic
6. Wolf, AG, Mainburg, Germany
7. ČVÚT – Civil Engineering Faculty, Prague, Czech Republic
8. VÚT, Brno, Czech Republic
9. VIAS, Sofia, Bulgaria
10. Deutsche Institute für Bautechnik, Berlin, Germany
11. Czech Association of Civil Engineers, Prague, Czech Republic
12. ASHRAE – Atlanta, Georgia, USA
13. REHVA – Brussels, Belgium
14. Fachhochschule Pinkafeld, Austria
15. The Danish Technical University – International Center for the Indoor Environment and Energy, Lyngby, Denmark
16. Technical University, Budapest, Hungary

### **VI.2.1 Visitors to the Department**

1. Papež, K.; The Czech Technical University of Prague, Czech Republic
2. Hirš, J., K.; The Czech Technical University of Prague, Czech Republic
3. Horká, H., K.; The Czech Technical University of Prague, Czech Republic
4. Dahlsveen, T.; ENSI, a.s.; Oslo, Norway

### **VI.2.2 Visits of Staff Members and Postgraduate Students to Foreign Institutions**

1. Petráš, D.:ASHRAE Winter Meeting 2001 – Atlanta, USA, 6 days
2. Petráš, D.: 16th International Conference on Heating 2001, Prague, Czech Republic, 3 days
3. Petráš, D.:REHVA General Assembly – Frankfurt, Germany, 3 days
4. Petráš, D.: OECD – PEB meeting, Paris, France, 5 days
5. Petráš, D.: IBPSA, CIAR conferences, Rio de Janero/ Buenos Aires, 11 days
6. Petráš, D.: Imperial College, London, England, 4 days
7. Petráš, D.: CLIMA 2000, Naples, Italy, 7 days
8. Petráš, D.: AQUATHERM? Prague, Czech Republic, 4 days
9. Petráš, D.; Valášek, J.; Ehrenwald, P.; Jánošková, T.; Ihradský, J.; Kovářová, Z. – Fachhochschul, Pinkafeld, Austria
10. Takács, J.; Magyar, J.; Kalús, D.: The Czech Technical University, Prague
11. Takács, J.; Magyar, J.; Kalús, D.: The Czech Technical University, Brno
12. Šabíková, J. - The Danish Technical University – International Center for the Indoor Environment and Energy, Lyngby, Denmark

## VII. THESES

### VII.1 Graduate Theses

No.	Student's name	Title	Supervisor
1.	Báleš	Design of Combined Gas Heating System in a Sports Hall Using Infrared Heaters and Hot-Air Units	Kalús
2.	Bubeníková	Final Project of Sanitary-Technical Installations in a National Heritage Building in Bratislava	Valášek
3.	Budiaková	Ventilation of a Hotel – the Entrance	Leimberger
4.	Dalmadyová	Air Conditioning of a Surgery	Mikuška
5.	Deák	Reconstruction of Heat-Delivery Plant for a Gas Boiler House Focusing on Measurement and Control	Ehrenwald
6.	Devečková	Technical Standard and Code Basis for Design of Gas Piping and Gas Take-Off Equipment. Final Project of Indoor Gas Piping in an Industrial Hall	Tonhauzer
7.	Farkaš	Design of a Solar Energy System for Hot Water Preparation in an Outdoor Swimming Pool	Magyar
8.	Gatíal	Calculation and Design of a Biomass - Based Heating Source of a Hotel for Handlova Coal Miners	Takács
9.	Hyben	Ventilation of a Cinema in the ABC Prague Building	Bod'ó
10.	Halák	Air Conditioning in Selected Areas of a Bank	Székyová
11.	Janes	Air Conditioning in a Cinema	Székyová
12.	Jókay	Design of a Low-Pressure Boiler House – 800 kW Power Output	Lulkovičová
13.	Kožuchová	Design of a Low-Pressure Gas Boiler House Equipped with Low-Temperature Condensing Boilers	Lulkovičová
14.	Kohút	Design of Zone Heating in Industrial Hall. Combination of Gas Infrared Heaters with Hot-Air Units	Kalús
15.	Kubáň	Ventilation of a Cinema	Leimberger

16.	Jančík	Design of a Solar Energy Based Low-Temperature Heating System in a Holiday Center	Petráš
17.	Lipták	Hydronic Controls of Hot-Water Heating System in a Dwelling House in Furdekova Street, Bratislava	Takács
18.	Míkula	Final Project of Sanitary-Technical Installations for a Railway Station Building	Valášek
19.	Molnár	Reconstruction of a National Heritage Building for Office Building. Final Project	Peráčková
20.	Pířová	Ventilation of a Welding Hall – Industrial Exhaust	Mikuška
21.	Polakovičová	Design of Sanitary-Technical Installations in a Dwelling House Concerning the Optimization of Hot Water and Energy Measurement.	Jánošková
22.	Prelovská	Heating of a Billa Shopping Center. Suspended Radiation Panel Base	Kalús
23.	Repaský	Natural Gas Hot-Water Boiler House with Additional Solar Equipment	Takács
24.	Rosina	Utilization of Rainwater in a Sanitary Technical Installation Project in a Contemporary Building on a Building Site	Peráčková
25.	Rozenberg	Design of Combined Heating in an Office Building: Plastic Base	Petráš
26.	Slovák	Combined Gas Heating in an Industrial Hall: Radiant Infrared Heater, and Hot-Air Unit Base	Kalús
27.	Sumec	Sanitary-Technical Installation Project – Conversion of a Dwelling into a Retirement Home	Hrbatý
28.	Szántai	Design of a Combined Hot Water Heating System	Lulkovičová
29.	Székyová	Air Conditioning of a Surgery	Bod'ó
30.	Trebulová	Air Conditioning of a Warehouse for Herbs	Székyová

## VII.2 Doctoral Dissertation

No.	Student's name	Title	Supervisor
1.	Ťažiarová	Analysis of the Possibilities of Applying Electric Heating to a Hot Water Pipeline	

## VIII. OTHER ACTIVITIES

### VIII.1 Special Lectures

1. Postgraduate courses in New Trends in the Selection, Design and Operation of Technical Equipment in Buildings, Module G – Low-Temperature Heating Systems, SUT, Bratislava
2. Postgraduate courses in New Trends in the Selection, Design and Operation of Technical Equipment in Buildings, Module H – Renewable Energy Sources, SUT, Bratislava
3. Organization of an International Conference on the Indoor Climate of Buildings 2001, November 2001, Strbske Pleso, Slovakia
4. Organization of an International Conference on Heating 2001, Stará Ľubovňa, 2001.

## VIII.2 Commercial Activities for Firms and Institutions

1. Postgraduate courses in New Trends in the Selection, Design and Operation of the Technical Equipment of Buildings, Module G – Low-Temperature Heating Systems, SUT, Bratislava, Petráš, et al.
2. Postgraduate courses in New Trends in the Selection, Design and Operation of the Technical Equipment of Buildings, Module G – Renewable Energy Sources, SUT, Bratislava, Petráš, et al.
3. Expert Technical Report – Energy Audit of Buildings – LUX Hotel, Banská Bystrica, Petráš, et al.
4. Heat Delivery in the Area of DREVOMONT – FITOS, Dunajská Streda, Bratislava, 2001, Petráš, et al.
5. Conditions and Requirements for the Material, Construction, and Technical Design of a New Dwelling House, Bratislava, 2001, Petráš
6. Building Reconstruction and Engineering Network in the Slovak Embassy, Delhi, 2001, Leimberger, et al.
7. Building Reconstruction and Engineering Network in the Slovak Embassy, Peking, 2001, Leimberger
8. Seminar (with international participation) on the History, Present, and Future of the Department of Building Services, 2001, Lulkovičová, et al.
9. Analysis of Thermo-Technical Properties of Peripheral Constructions in Cellars - Boxes, 2001, Mikuška
10. Review of Thermal – Technical State of External Heat Piping 2001, Peráčková
11. PERÁČKOVÁ, J.: Evaluation of the Technical Conditions for Heat Supply Distribution Systems.
12. PERÁČKOVÁ, J.: Optimization of Thickness in Thermal Insulation Design in Building Services

## IX. PUBLICATIONS

### IX.1 Journals

- [1] PETRÁŠ, D.: Energy Audit – Know-How in Energy Saving. Vytápění, větrání, instalace 1/2001, STP Prague, pp. 22-26
- [2] MAGYAR, J.: Fittings in Heating Systems. In: Projekty rodinných domů - Spring 2001. Vydavatel'stvo Jaga v.o.s., Bratislava, 2001, pp. 88-90
- [3] EHRENWALD, P.: Practical Introduction to Control of Building Services Equipment – 5<sup>th</sup> Part: Control Panel. TZB Haustechnik 1/2001, Alfa konti, Bratislava, pp. 13 - 15, 2/2001, pp. 16- 18
- [4] EHRENWALD, P.: Practical Introduction to Control of Building Services Equipment – 6<sup>th</sup> Part: Control Circuits. TZB Haustechnik 3/2001, Alfa konti, Bratislava, pp. 19- 26, 4/2001, p. 17
- [5] ŠABÍKOVÁ, J.: Additional Storeys and Attics on Existing Buildings. TZB Haustechnik 5/2001, Alfa konti, Bratislava, pp. 22- 23
- [6] LULKOVIČOVÁ, O.: Treatment and Disposal of Condensate in Gas-Fired Boiler Rooms. TZB Haustechnik 5/2001, Alfa konti, Bratislava, p. 13
- [7] LULKOVIČOVÁ, O.: Renewable Energy Sources – Part 1. TZB Haustechnik 9/2001, Alfa

- konti s.r.o. Bratislava, pp. 6-10
- [8] LULKOVÍČOVÁ, O.: Renewable Energy Sources – Part 2. TZB Haustechnik 10/2001, Alfa konti, Bratislava, pp. 6-9
- [9] MAGYAR, J.: Significance of Energy Audits in Renovations of Dwellings. In: TZB Haustechnik 5/2001. Alfa konti, Bratislava, 2001, pp. 42-44
- [10] PETRÁŠ, D.: Technical Normalization Committee No. 92 – Heating Systems in Buildings. TZB Haustechnik 1/2001, Alfa konti, Bratislava, p. 46
- [11] PETRÁŠ, D.: Low-Temperature Heating – Part 1: Renewable Energy Sources for Low-Temperature Systems. TZB Haustechnik 1/2001, Alfa konti, Bratislava, pp. 6-8
- [12] PETRÁŠ, D.: Low-Temperature Heating – Part 2: Low-Energy Buildings for Low-Temperature Heating. TZB Haustechnik 2/2001, Alfa konti, Bratislava, pp. 6-9
- [13] PETRÁŠ, D.: Low-Temperature Heating – Part 3: Calculation and Design of Low-Temperature Heating. TZB Haustechnik 1/2001, Alfa konti, Bratislava, pp. 6-10
- [14] KALÚS, D.: Criteria and Requirements for Selection of Radiant Heating Systems with Infrared Heaters, SLOVGAS 1/2001, SPP Bratislava, pp. 22-25
- [15] MAGYAR, J.: Fittings in Heating Systems. In: Projekty rodinných domov - Spring 2001. Vydavateľstvo Jaga v.o.s., Bratislava, 2001, pp. 108-110
- [16] PETRÁŠ, D.: Hybrid Heating and Ventilation of Industrial Facilities Connected to District Energy System. In: ASHRAE Transaction 2001, Atlanta USA, 6 pp.
- [17] PETRÁŠ, D.: Metropolitan Cities of the World - Vienna. In: Eurostav 1/2001, pp. 71-73
- [18] PETRÁŠ, D.: Metropolitan Cities of the World - Berlin. In: Eurostav 2/2001, pp. 84-88
- [19] PETRÁŠ, D.: Metropolitan Cities of the World - Frankfurt. In: Eurostav 3/2001, pp. 79-81
- [20] PETRÁŠ, D.: Metropolitan Cities of the World - Helsinki. In: Eurostav 4/2001, pp. 63-65
- [21] PETRÁŠ, D.: Metropolitan Cities of the World - Rio de Janeiro. In: Eurostav 6/2001, pp. 63-65
- [22] PETRÁŠ, D.: Metropolitan Cities of the World - Buenos Aires. In: Eurostav 7/2001, pp. 63-65
- [23] PETRÁŠ, D.: Metropolitan Cities of the World - Sao Paulo. In: Eurostav 8/2001, pp. 63-65
- [24] PETRÁŠ, D.: Intelligent Building from Point of View of Prof. Ing. Dušan Petráš, Ph.D. In: Eurostav 2/2001, pp. 52-54
- [25] EHRENWALD, P.: Is It Reasonable to Want Our Own Slovak Way of Designing Intelligent Buildings? Stavba 1/2001, Adore Slovakia s.r.o. Bratislava, pp. 4 - 6
- [26] EHRENWALD, P.: Quo Vadis: Intelligent Buildings in Slovakia? Eurostav 2/2001, Eurostav s.r.o. Bratislava, pp. 10 – 13
- [27] TAKÁCS, J., VALÁŠEK, J.: Domestic Hot Water Preparation and Heating in Dwellings. Stavba 2/2001, Adore s.r.o., pp. 44-45
- [28] MIKUŠKA, P.: Utilization of Units for Indoor Climate Design in Dwellings, In: TZB Haustechnik 6/2001. Alfa konti, Bratislava, 2001, pp. 23-24
- [29] IHRADSKÝ, J., SZÉKYOVÁ, M.: Renovation of Dwellings as Far as Ventilation is Concerned. In: TZB Haustechnik 5/2001. Alfa konti, Bratislava, 2001, pp. 10-13
- [30] BOĎO, R.: Industrial Discharge of Pollutants: Welding Shop, TZB Haustechnik 6/2001, Alfa konti, Bratislava, 2001, pp. 34-35
- [31] SZÉKYOVÁ, M.: Air Conditioning of a Superaseptic Surgery. TZB Haustechnik 6/2001, Alfa konti, Bratislava 2001
- [32] SZÉKYOVÁ, M.- IHRADSKÝ, J.: The Use of Progressive Vertical Laminar Systems in Indoor Climate of a Surgery, TZB Haustechnik 6/2001, Alfa konti s.r.o. Bratislava, 2001, pp.11-14
- [33] LEIMBERGER, P.: For a Feeling of Comfort, Journal for Initiating a Comfortable Feeling, 2001, Omnipublic, Bratislava, 2001, 8 p.
- [34] SZÉKYOVÁ, M.: Air Conditioning of Meeting Places, Stavba 6/2001, Adore, Bratislava,



- 2001, pp. 46-48
- [35] SZÉKYOVÁ, M.: Aseptic Areas in Hospitals: Surgeries, Stavba 6/2001, Adore, Bratislava, 2001
- [36] ŤAŽIAROVÁ A.: Analysis of the Application of a Trace Heating System for Hot Water Piping. In: Slovak Journal of Civil Engineering 2001
- [37] JÁNOŠKOVÁ, T.: Using Modern Technologies for the Centralized Collection of Data on Energy Consumption in Dwelling Houses. TZB Haustechnik 5/2001, Alfa konti, Bratislava, pp. 19- 22
- [38] VALÁŠEK, J.: Sanitary Technology and Equipment. In: Almanach Stavebnictvo, Commercial Building Directory, Bratislava 2001, p. 8
- [39] VALÁŠEK, J.: Act 237/2000, Changing and Amending Act 50/1976 on Territorial Planning and Building Regulation (Construction Act) in the Wording of Subsequent Regulations and on Changes and Amendments to Related Laws In: TZB Haustechnik 2/2001. Alfa konti, Bratislava, 2001, pp. 13-14
- [40] VALÁŠEK, J.: 20th Anniversary of the Department of Building Services at the Faculty of Civil Engineering In: TZB Haustechnik 6/2001. Alfa konti, Bratislava, 2001, pp. 49-50
- [41] VALÁŠEK, J.: Seminar on the 20th Anniversary of the Department of Building Services. In: TZB Haustechnik 6/2001. Alfa konti, Bratislava, 2001, p. 47
- [42] BEŇO, S.: Will It Be Possible to Drain the Underground Level in a Building without Pumping after STN EN 12056-4 Comes into Force? TZB Haustechnik /2001, Alfa konti, Bratislava
- [43] PERÁČKOVÁ, J.: New Trends in Sanitary Installation Systems. Part One. TZB Haustechnik 1/2001, Alfa konti Bratislava, pp. 20-26
- [44] PERÁČKOVÁ, J.: New Trends in Sanitary Installation Systems. Part Two. Haustechnik 2/2001, Alfa konti, Bratislava, pp. 10-11
- [45] KUCBEL J., ŤAŽIAROVÁ A.: Waterless Urinal Units. In: TZB Haustechnik 3/2001, Alfa konti, Bratislava, pp. 26 – 27
- [46] TAKÁCS, J., VALÁŠEK, J.: Hot Water Preparation and Heating in Dwelling Houses. Stavba 2/2001, Adore, pp. 44-45
- [47] VALÁŠEK, J.: About the Activities of the Information and Consulting Centre for Environmental Legislation and Standards at STU Bratislava. Spektrum 2/2001, 2 pp.
- [48] VALÁŠEK, J., BEŇO, S.: Waste Water Pumping Inside a Building. Projekt a stavba 11/2001, SKSI Bratislava, pp. 32 - 34
- [49] VALÁŠEK, J., BEŇO, S.: Technical Equipment for a Fountain. Projekt a stavba 7-8/2001, SKSI Bratislava, pp. 39 - 44
- [50] VALÁŠEK, J.: Underpressurised Drainage System. Projekt a stavba 12/2001, SKSI Bratislava, pp. 16 – 17
- [51] TONHAUZER, I.:“AUTOTYP” Car Centre: Typical Functions. Eurostav 2/2001, Eurostav, Bratislava, pp. 56 – 59
- [52] PERÁČKOVÁ, J.: Sanitary Installation Unit Systems – Trends or Understanding the New Building Technology? Projekt a stavba 1/2001, SKSI Bratislava, pp. 28 - 32
- [53] PERÁČKOVÁ, J. - VALÁŠEK, J.: Internal Drainage. STU Bratislava. In: VVI 3/2001, pp. 123
- [54] TONHAUZER, I.: Autotype Autocentrum Bratislava In: EUROSTAV 5/2001, 89 pp.
- [55] TONHAUZER, I.: Office: Jub Kastaco Shopping Center Bratislava In: EUROSTAV 5/2001, 88 pp.

## IX.2 Books and Textbooks

- [1] PETRÁŠ, D., (LULKOVIČOVÁ, O., TAKÁCS, J., FÜRI, B.): Low-Temperature Heating

- and Renewable Energy Sources, Jaga Group v.o.s. Bratislava, 271 pp.
- [2] DOHŇANSKÝ, J., EHRENWALD, P., JÁNOŠKOVÁ, T., KOUDELKOVÁ, D., KRISTOVÁ, H., PETRÁŠ, D., TAKÁCS, J., ŤAŽIAROVÁ, A.: Technical Regulations for Requirements and Solutions, Ministry of Construction and Regional Development of the Slovak Republic, 104 pp.
- [3] PETRÁŠ, D., JÁNOŠKOVÁ, T., EHRENWALD, P., TAKÁCS, J., DOHŇANSKÝ, J., KOUDELKOVÁ, D., ŤAŽIAROVÁ, A., KRISTOVÁ, H.: Centralized Collection of Measuring Data of Energy Consumption in Flats and Dwelling Houses with the Creation of Requirements for Intelligent Buildings. Institute of Education and Services, Bratislava, 105 pp.
- [4] LULKOVÍČOVÁ, O.: Chapter V. Solar Energy. In: Monograph on Low-Temperature Heating and Renewable Energy Sources, Jaga v.o.s. Bratislava. pp. 98-138
- [5] LULKOVÍČOVÁ, O.: Solar Energy. In: Monograph on Heating of Detached Houses, Antar s.r.o. Bratislava. pp. 50-64
- [6] LULKOVÍČOVÁ, O.: New Fuel Combustion Technologies and Condensation Technology. In: Stavebnícka ročenka 2001, Jaga Group v.o.s. Bratislava
- [7] PETRÁŠ, D.: Hybrid Heating/Cooling Systems: Low-Temperature Heating and High-Temperature Cooling, In: Stavebnícka ročenka 2001, Jaga Group v.o.s. Bratislava, 8 pp.
- [8] MAGYAR, J.: Heat Pumps and Possibilities of Their Application in Detached Houses. In: Ročenka moderného bývania 2001 - Renovujeme, staviame, zariaďujeme. Vydavateľstvo Jaga v.o.s., Bratislava, 2001, pp. 112-113
- [9] MAGYAR, J.: Promotional Material of ZSE, a.s: Heat Loss. ZSE, a.s. Bratislava, 2001, 42 pp.
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