

**STROJNJIŠTVO (1001067)**  
**DOKTORSKI, TRETJA STOPNJA**

**AKUSTIČNA EMISIJA IN HRUP (0033427)**

**Nosilci:** Jurij Prezelj

- [1] Čudina, M., Tehnična akustika : merjenje, vrednotenje in zmanjševanje hrupa in vibracij, 2. dopolnjena izd. Ljubljana : Fakulteta za strojništvo, 2013 [i.e.] 2014, [COBISS.SI-ID – 271188736]
- [2] Crocker, M.J., Handbook of noise and vibration control, Hoboken, New Jersey, USA : John Wiley & Sons, cop. 2007, [COBISS.SI-ID – 10213659]
- [3] Brandt, A., Noise and vibration analysis : signal analysis and experimental procedures, Chichester : Wiley, 2011, [COBISS.SI-ID – 13506075]
- [4] White, R.G. ; Walker, J.G., Noise and vibration, New York [etc.] : John Wiley & Sons : Ellis Horwood Limited, 1986, [COBISS.SI-ID – 642578]
- [5] Muller, G., Moser, M., Taschenbuch der technischen Akustik, 3.te erweiterte und überarbeitete Aufl. Berlin: Springer, 2004, [COBISS.SI-ID – 25220613]
- [6] Christopher, A.S., Mueller, T. J., Aeroacoustic measurements, Berlin: Springer, 2002, [COBISS.SI-ID – 7917851]
- [7] Zollner, M., Zwicker, E., Elektroakustik, 3.te, verbesserte und erweiterte Aufl., 1.te korrigierter Nachdruck, Berlin: Springer, 1998 [COBISS.SI-ID – 3979803]
- [8] Kuttruff, H., Ultrasonics : fundamentals and applications, New York : Elsevier Applied Science, 1991, [COBISS.SI-ID – 232475]

**AKUSTIKA IN ULTRAZVOK (0033410)**

**Nosilci:** Jurij Prezelj

- [1] Kuttruff, H., Ultrasonics : fundamentals and applications, New York : Elsevier Applied Science, 1991, [COBISS.SI-ID – 232475]
- [2] Hu, Junhui, Ultrasonic micro/nano manipulations: principles and examples, New Jersey: World Scientific, cop. 2014 [COBISS.SI-ID – 15871515]
- [3] Leighton, T. G., The acoustic bubble, San Diego, London: Academic Press, 1994, [COBISS.SI-ID – 10739483]
- [4] Muller, G., Moser, M., Taschenbuch der technischen Akustik, 3.te erweiterte und überarbeitete Aufl. Berlin: Springer, 2004 [COBISS.SI-ID – 25220613]
- [5] Christopher, A.S., Mueller, T. J., Aeroacoustic measurements, Berlin: Springer, 2002 [COBISS.SI-ID – 7917851]
- [6] Zollner, M., Zwicker, E., Elektroakustik, 3.te, verbesserte und erweiterte Aufl., 1.te korrigierter Nachdruck, Berlin: Springer, 1998 [COBISS.SI-ID – 3979803]
- [7] White, R.G. ; Walker, J.G., Noise and vibration, New York [etc.] : John Wiley & Sons : Ellis Horwood Limited, 1986 [COBISS.SI-ID – 642578]

**DIFERENCIALNE ENAČBE (0033411)**

**Nosilci:** Aljoša Peperko

- [1] E. Zakrajšek, Analiza III, Društvo matematikov, fizikov in mehanikov, 1998, [COBISS.SI-ID – 269299968]
- [2] W. Walter, Ordinary differential equations, Springer, 1998, [COBISS.SI-ID – 8259161]
- [3] L. C. Evans, Partial Differential Equations, American Mathematical Society, 1998, [COBISS.SI-ID – 174088195]
- [4] E. Kreyszig, Advanced Engineering Mathematics, 10th ed., international student version, New Delhi : Wiley, cop. 2011, [COBISS.SI-ID - 14696731]

## Temeljni viri in literatura

- [5] S. J. Farlow, Partial Differential Equations for Scientists and Engineers, Dover, 1993, [COBISS.SI-ID 3246619]

### DINAMIKA IN VIBRACIJE (0033428)

**Nosilci:** Gregor Čepon, Janko Slavič, Miha Boltežar

- [1] Rao SS: Mechanical vibration, 6th Ed, 2018. [COBISS.SI-ID – 138737667]
- [2] Rao, J.S.: Dynamics of plates.- New York; Basel; Hong Kong: M. Dekker; New Delhi etc.: Narosa, cop. 1999. [COBISS.SI-ID – 3548443]
- [3] Frolov, K.V., Furman, F.A.: Applied theory of vibration isolation systems.- New York etc.: Hemisphere, 1990. [COBISS.SI-ID – 177947]
- [4] McConnell, K.G.: Vibration testing: theory and practice.- New York etc.: John Wiley & Sons, cop. 2008. [COBISS.SI-ID – 12112155]
- [5] Lee, Chong-Won: Vibration analysis of rotors.- Dordrecht; Boston; London: Kluwer Academic, cop. 1993.- (Solid mechanics and its applications; vol. 21). [COBISS.SI-ID – 742683]
- [6] Newland DE: An Introduction to Random Vibrations, Spectral & Wavelet Analysis, 3rd Ed, 2005. [COBISS.SI-ID – 3552795]
- [7] Griffin, M.J.: Handbook of human vibration – 2nd ed.- London etc.: Academic Press, 1994, cop. 1990. - Izbrana poglavja. [COBISS.SI-ID – 2127211]

### DINAMIKA SISTEMOV TELES (0033429)

**Nosilci:** Gregor Čepon, Miha Boltežar

- [1] A. A. Shabana: Computational Dynamics, John Wiley & Sons, 1994. – izbrana poglavja [COBISS.SI-ID – 13386523]
- [2] F. Pfeiffer, C. Glocker: Multibody Dynamics with Unilateral Contacts, John Wiley & Sons, 1996, [COBISS.SI-ID 5580315]
- [3] A. A. Shabana: Dynamics of Multibody Systems, 3rd ed., Cambridge university press, 1994. – izbrana poglavja [COBISS.SI-ID 8633371]
- [4] A. A. Shabana: Computational Continuum Mechanics, Cambridge University Press, 2008, [COBISS.SI-ID 10606363]

### EKOLOGIJA DELOVNEGA IN BIVALNEGA OKOLJA (0033446)

**Nosilci:** Uroš Stritih

- [1] C. Streffer all: Environmental standards. Combined exposures and their effects on human beings and their environment. Springer – Verlag, Berlin, 2003.–Izbrana poglavja. [COBISS.SI-ID - 6683675]
- [2] de N. Nevers: Air pollution control engineering, McGraw-Hill, New York, 1995. [COBISS.SI-ID - 40079617]
- [3] E. Mundt and all: Ventilation effectiveness, REHVA Guidebook 2, Brussels 2004. [COBISS.SI-ID - 513077367]
- [4] SCANVAC. Classified indoor climate systems : guidelines and specifications , Stockholm : The Swedish Indoor Climate Institute, 1991 [COBISS.SI-ID - 6503963].
- [5] R. Reeve: Introduction to Environmental analysis. John Willey & sons, LTD., Chichester, 2002. - Izbrana poglavja. [COBISS.SI-ID - 5481499]

### EKSPERIMENTALNA MEHANIKA (0033430)

**Nosilci:** Janko Slavič

- [1] Gonzalez, Rafael C. ; Woods, Richard Eugene: Digital image processing. Pearson, cop. 2018. [COBISS.SI-ID – 16999707]
- [2] S. Mallat: A Wavelet Tour of Signal Processing, 2nd ed., Academic Press, 2001. [COBISS.SI-ID – 4743195]

## Temeljni viri in literatura

- [3] Dally, J.W., Riley, W.F.: Experimental stress analysis.- 3rd ed.- New York [etc.]: McGraw-Hill, cop. 1991. [COBISS.SI-ID – 2221083]
- [4] Inman et al.: Damage prognosis: for aerospace, civil and mechanical systems, 2005. [COBISS.SI-ID – 11588635]

### EKSPERIMENTALNE METODE V RAZISKOVALNEM DELU (0033412)

**Nosilci:** Drago Bračun, Jože Kutin

- [1] Montgomery, D.C.: Design and analysis of experiments. Wiley, 2009 [COBISS.SI-ID 11603483]
- [2] Myers, R. H., Montgomery, D. C., Anderson-Cook, C. M.: Response surface methodology: process and product optimization using designed experiments. Wiley, 2009 [COBISS.SI-ID 11604251]
- [3] Holman, J.P.: Experimental methods for engineers. McGraw-Hill, 2001 [COBISS.SI-ID 4627739]
- [4] Kirkup, L., Frenkel, R. B.: An introduction to uncertainty in measurement using the GUM. Cambridge University Press, 2006 [COBISS.SI-ID 666619]
- [5] Slaev, V. A., Chunovkina, A. G., Mironovsky, L. A.: Metrology and theory of measurement. De Gruyter, 2013 [COBISS.SI-ID 13148955]
- [6] Figliola, R. S., Beasley, D. E.: Theory and design for mechanical measurements. Wiley, 2011 [COBISS.SI-ID 35307013]
- [7] Morris, A. S.: Measurement & instrumentation principles. Butterworth-Heinemann, 2001 [COBISS.SI-ID 2266708]
- [8] Hashemian, H. M.: Sensor performance and reliability. ISA, 2005 [COBISS.SI-ID 10583323]
- [9] Montgomery, D. C., Runger, G. C.: Applied statistics and probability for engineers. Wiley, 2014 [COBISS.SI-ID 16830747]

### EKSPERIMENTALNO MODELIRANJE V ENERGETSKEM STROJNITVU (0033447)

**Nosilci:** Marko Hočevar

- [1] B. Širok , B. Blagojević, P. Bullen: Mineral wool : production and properties. Cambridge: Woodhead, 2008. X, [COBISS.SI-ID – 10475547]
- [2] B.Širok, M.Dular, B.Stoffel: Kavitacija. 1. natis. Ljubljana: i2, 2006, [COBISS.SI-ID – 227838208]
- [3] Douglas C. Montgomery: Design and analysis of experiments. John Wiley & Sons, INC, 7th Edition, 2009, [COBISS.SI-ID – 11603483]
- [4] Richard S. Figliola, Donald E. Beasley: Theory and Design for Mechanical Measurements. John Wiley & Sons, Inc., 5th Edition, 2011, [COBISS.SI-ID – 35307013]

### INTELIGENTNI STREŽNI IN MONTAŽNI SISTEMI (0033472)

**Nosilci:** Niko Herakovič

- [1] Boothroyd, G.: Assembly Automation and Product Design, 2nd ed., Boca Raton, FL: Taylor & Francis/CRC Press, 2005, [COBISS.SI-ID – 26842117]
- [2] Groover, Mikell P.: Automation, production systems, and computer-integrated manufacturing, 5th ed., New York (NY): Pearson, cop. 2019, [COBISS.SI-ID – 146606595]
- [3] Phanden, Rakesh Kumar | Ajai, Jain | Davim, J. Paulo: Integration of process planning and scheduling: approaches and algorithms, London; New York : CRC Press, Taylor & Francis, 2020, [COBISS.SI-ID – 17409539].
- [4] Gao, Vincent: Smart manufacturing principles and applications, knjiga, [S. l.: V. Gao], cop. 2021, [COBISS.SI-ID – 146626819].
- [5] Groover, Mikell P.: Fundamentals of modern manufacturing: materials, processes, and systems, 7th ed., Hoboken (NJ): John Wiley & Sons, cop. 2020, [COBISS.SI-ID – 146641667].
- [6] Liker, Jeffrey K. ; Hoseus, Michael: Toyota culture : the heart and soul of the Toyota way, New York [etc.]: McGraw-Hill, cop. 2008, [COBISS.SI-ID – 2792151].

## Temeljni viri in literatura

- [7] Shtub, Avraham ; Cohen, Yuval: Introduction to industrial engineering, 2nd ed., Boca Raton; London; New York: CRC Press, Taylor & Francis, cop. 2016, [COBISS.SI-ID – 38399749].
- [8] Hopkinson, N.: Rapid manufacturing: an industrial revolution for the digital age, Chichester, England; Hoboken, NJ: John Wiley, cop. 2006, [COBISS.SI-ID – 11614258].

### INŽENIRING KONTAKTNIH POVRŠIN (0033431)

**Nosilci:** Mitjan Kalin, Roman Šturm

- [1] Modern Surface Technology, eds.: F.W. Bach, A. Laarmann, T. Wenz, Wiley-VCH, Weinheim 2004- [COBISS.SI-ID – 9642779]
- [2] Johnson, K.L.: Contact mechanics.- Cambridge: Cambridge University Press, 1994 - COBISS.SI-ID - 1746454
- [3] Stachowiak, G.W., Batchelor, A.W.: Engineering tribology.- 2nd ed..- Amsterdam: Elsevier, 1993 – [COBISS.SI-ID – 736283]
- [4] Bhushan, B., Gupta, B.K.: Handbook of tribology, New York etc.: McGraw-Hill, 1991 – [COBISS.SI-ID – 12314629]
- [5] Holmberg, K. , Matthews, A.: Coatings tribology: properties, techniques and applications in surface engineering.- Amsterdam etc.: Elsevier, cop. 2009- [COBISS.SI-ID – 10979099]
- [6] Surface engineering practice /ed. by K.N. Strafford, P.K. Datta, J.S. Gray.- New York: Ellis Horwood, 1990 – [COBISS.SI-ID – 2991877]
- [7] Grum J.: Laser surface hardening. V: TOTTEN, George E. (ur.). Steel heat treatment: equipment and process design. 2nd ed. Boca Raton: Taylor & Francis, cop. 2007, str. 435-566 – [COBISS.SI-ID – 120775936]
- [8] Grum J.: Modelling of Laser Surface Hardening,, C. H. Gür, J. Pan: Handbook of Thermal Process Modeling of Steels, CRC Press, Taylor & Francis Group, USA, 499 – 626, 2009. [COBISS.SI-ID – 720298]

### IZBOLJŠANI PRENOS TOPLOTE (0033448)

**Nosilci:** Iztok Golobič

- [1] Webb R.L.: Principles of enhanced heat transfer. Second edition, Taylor& Francis, Boca Raton, 2005, [COBISS.SI-ID - 8602651]
- [2] Joshua P. Mayer, Michael De Paepe: The Art of Measuring in the Thermal Sciences, 1st ed., CRC Press, London, 2021 [COBISS.SI-ID - 55605507]
- [3] Incropera F.P., DeWitt P.D., Bergman, T.L, Lavine, A.S.: Fundamentals of Heat and Mass Transfer, Sixth Edition, John Wiley and Sons, New York, 2007 [COBISS.SI-ID - 12387634]
- [4] Gašperšič B.: Prenos toplote, Univerza v Ljubljani, Fakulteta za strojništvo, Ljubljana, 2001 [COBISS.SI-ID - 111288064]
- [5] VDI Gesellschaft, VDI Heat Atlas. 2nd Edition, Springer, Düsseldorf, 1993 [COBISS.SI-ID – 1398555]
- [6] Atkins, Peter William, idr. Atkins' physical chemistry. 11th ed., Oxford University Press, 2018 [COBISS.SI-ID 21197846]

### IZBRANA POGLAVJA IZ PROIZVODNIH SISTEMOV (0033456)

**Nosilci:** Tomaž Berlec

- [1] Groover, Mikell P.: Fundamentals of modern manufacturing : materials, processes, and systems, 2020, [COBISS.SI-ID – 146641667]
- [2] Groover, Mikell P.: Automation, production systems, and computer-integrated manufacturing, 2019, [COBISS.SI-ID – 146606595]
- [3] Claus-Gerold Gründing: Fabrikplanung : Planungssystematik - Methoden – Anwendungen, 2009, [COBISS.SI-ID – 11957787]
- [4] Heragu, Sunderesh S.: Facilities design, 2008, [COBISS.SI-ID – 11310107]
- [5] Hans Schmidgalla: Fabrikplanung, Carl Hanser Verlag, 1995, [COBISS.SI-ID – 636809]

## Temeljni viri in literatura

### IZBRANA POGLAVJA IZ TEHNIČNE KIBERNETIKE (0033457)

**Nosilci:** Primož Podržaj

- [1] A.W. Wymore: Systems engineering methodology for interdisciplinary teams, Wiley, 1976, [COBISS.SI-ID – 3126567]
- [2] D. Karnopp, R. Rosenberg: System dynamics: a unified approach, Wiley, 1975, [COBISS.SI-ID – 7314971]
- [3] P.E. Wellstead: Introduction to physical system modelling, Academic Press, 1979, [COBISS.SI-ID – 7288603]
- [4] J.J. DiStefano, A.R. Stubberud, I.J. Williams: Schaum's outline of theory and problems of feedback and control systems - 2nd ed., McGraw-Hill, 1995, [COBISS.SI-ID – 232291]
- [5] S.A. Tretter: Introduction to discrete-time signal processing, Wiley, 1976, [COBISS.SI-ID – 76118]
- [6] R. Isermann: Digitale Regelsysteme. Bd.2: Stochastische Regelungen, Springer-Verlag, 1987, [COBISS.SI-ID – 117531]
- [7] E. Cox: The fuzzy systems handbook, Academic Press, 1994, [COBISS.SI-ID – 834075]
- [8] W. Pedrycz: Fuzzy sets engineering, CRC Press, 1995, [COBISS.SI-ID – 1269275]

### KAOTIČNA DINAMIKA (0033413)

**Nosilci:** Edvard Govekar

- [1] Strogatz, S. H.: Nonlinear dynamics and chaos: with applications to physics, biology, chemistry and engineering.- Reading etc.: Addison-Wesley, 1994, [COBISS.SI-ID – 7320347]
- [2] Anastasios A. Tsonis: Chaos: From Theory to Applications, Plenum Press, NY, 1992 [COBISS.SI-ID – 875035]
- [3] Moon, F.: Chaotic and fractal dynamics, an introduction for applied scientists and engineers.- New York etc.: J. Wiley & Sons, 1992, [COBISS.SI-ID – 34245121]
- [4] Paul S Addison: Fractals and Chaos an Illustrated Course, IOP Publishing 1997, [COBISS.SI-ID – 7914011]
- [5] H. D. I. Abarbanel: Analysis of Observed Chaotic Data, Springer, 1996, [COBISS.SI-ID – 1472795]
- [6] Heiger R, Kantz, H., Schreiber, TISEAN-Nonlinear time series analysis,- software package <http://www.mpiks-dresden.mpg.de/~tisean/>

### KARAKTERIZACIJA POLIMERNIH MATERIALOV (0033432)

**Nosilci:** Lidiya Slemenik Perše

- [1] Dealy, John M. ; Read, Daniel J.; Larson, Ronald G., Structure and rheology of molten polymers : from structure to flow behavior and back again, Munich : Hanser, cop. 2018; ISBN - 978-1-56990-611-8; 978-1-56990-612-5; [COBISS.SI-ID – 132671491]
- [2] Cheremisinoff, N. P.: Product design and testing of polymeric materials.- New York: Marcel Dekker, Inc., 1990, ISBN - 0-8247-8261-5; [COBISS.SI-ID – 262427]
- [3] James, Jose, Pramoda, K. P., Thomas, Sabu; Polymers and multicomponent polymeric systems: thermal, thermo-mechanical and dielectric analysis, Boca Raton [Florida] ; London ; New York : CRC Press, cop. 2020, ISBN - 978-1-138-59814-0, [COBISS.SI-ID – 17249027]
- [4] Wilczyński, Krzysztof, Rheology in polymer processing: modeling and simulation, Munich: Hanser, 2021, ISBN - 978-1-56990-660-6; 978-1-56990-661-3, [COBISS.SI-ID – 64188163]
- [5] Hyer, M. W., Stress Analysis of Fiber-Reinforced Composite Materials, Lancaster (Pennsylvania): DEStech Publications, Updated ed., 2009; ISBN - 978-1-932078-86-2; [COBISS.SI-ID – 16343579]
- [6] Gedde, Ulf W., Applied polymer science, Cham: Springer, cop. 2021, ISBN - 978-3-030-68474-7; 978-3-030-68472-3, [COBISS.SI-ID – 148168707]

### KOMPLEKSNI MEHATRONSKI SISTEMI (0033458)

**Nosilci:** Dominik Kozjek

- [1] T. Scheurer: Foundations of computing: system development with set theory and logic, Addison-Wesley, 1994. [COBISS.SI-ID 1269787]
- [2] K. Edwards: Real-time structured methods: systems analysis, Wiley, 1993. [COBISS.SI-ID 14282245]

## Temeljni viri in literatura

- [3] A. Burns, G. Davies: Concurrent programming, Addison-Wesley, 1993. [COBISS.SI-ID 757275]
- [4] C.A.R. Hoare: Communicating sequential processes, Prentice-Hall, 1985. [COBISS.SI-ID 388379]
- [5] R. Zurawski, Embedded Systems Handbook, CRC, 2005. – izbrana poglavja. [COBISS.SI-ID 5044820]
- [6] H. Mitchell, Multi-Sensor Data Fusion: An Introduction, Springer, 2007. [COBISS.SI-ID 7900244]

### LASERSKA TEHNIKA (0033459)

**Nosilci:** Janez Daci, Matija Jezeršek, Rok Petkovšek

- [1] Das, P: Lasers and Optical Engineering, Springer-Verlag, Berlin, 1991. [COBISS.SI-ID – 9827924]
- [2] Smith, F.G., King, T.A., Wilkins, D.: Optics and photonics, Chichester, John Wiley&Sons, 2007. [COBISS.SI-ID – 12690482]
- [3] Allmen, M. von: Laser-beam interactions with materials.- Berlin [etc.]: Springer, 1987. [COBISS.SI-ID – 264453]
- [4] Schuecker, D.: High power lasers in production engineering, London, Imperial College Press, 1999. [COBISS.SI-ID – 3776539]
- [5] Steen, W.M.: Laser material processing, London, Springer Verlag, 2003. [COBISS.SI-ID – 6669851]
- [6] Ion, J.C.: Laser processing of engineering materials, Oxford, Elsevier Butterworth-Heinemann, 2005. [COBISS.SI-ID – 8185883]
- [7] Gasvik, K.J.: Optical metrology, Chichester, John Wiley & Sons, 2002. [COBISS.SI-ID – 11175195]
- [8] J.A. Buck, Fundamentals of Optical Fibers, 2nd edition, Wiley 2004. [COBISS.SI-ID – 1830678]
- [9] D.A. Krohn, Fiber optic sensors, Instrument society of America, 1992. [COBISS.SI-ID – 499483]
- [10] Čopič, Martin, Vilfan, Mojca, Fotonika, Fakulteta za matematiko in fiziko, 2020. [COBISS.SI-ID – 34035203]

### LINEARNA ALGEBRA (0033414)

**Nosilci:** Janez Žerovnik

- [1] S. Lipschutz, M.L. Lipson, Schaum's outline of theory and problems of linear algebra, 4th ed., New York [etc.] : McGraw-Hill, 2009. [COBISS.SI-ID – 22902021]
- [2] Meyer, Carl D. (February 15, 2001), Matrix Analysis and Applied Linear Algebra, Society for Industrial and Applied Mathematics (SIAM). Available online at <http://www.matrixanalysis.com/DownloadChapters.htm>
- [3] I. Vidav in soavtorji, Višja Matematika II, DZS 1975. [COBISS.SI-ID – 146689]
- [4] P.R. Halmos: Finite-dimensional vector spaces.- New York: Springer, 1974. [COBISS.SI-ID – 1983577]

### MEHANIZMI (0033434)

**Nosilci:** Robert Kunc

- [1] Uicker, J. J., Pennock, R. R., Shigley, E. J.: Theory of Machines and Mechanisms; Third Edition; Oxford University Press, 2003: ISBN 0-19-515598-X, [COBISS.SI-ID – 5698331]
- [2] Norton, L. R.: Design of Machinery (Synthesis and Analysis of Mechanisms and Machines), Second Edition; McGraw-Hill, 1999: ISBN 0-07-116605-X, [COBISS.SI-ID – 44430593]
- [3] Chironis, P. N.: Mechanisms and Mechanical Devices Sourcebook, Fourth Edition McGraw-Hill, 2007: ISBN- 978-0-07-146761-2, [COBISS.SI-ID – 11291158]
- [4] Howel, L. L.: Compliant Mechanisms; Wiley-Interscience, 2001: ISBN- - 047138478X, [COBISS.SI-ID – 4903195]
- [5] Mabie, H. H., Reinholtz, C. F.: Mechanisms and Dynamics of Machinery, Fourth Edition; Wiley, 1987: ISBN-0-471-80237-9, [COBISS.SI-ID – 290331]
- [6] Mechanism and Machine Theory; Elsevier, ISSN 1873-3999, COBISS.SI-ID – 118840835, e-vir
- [7] Tryliński, W.: Fine mechanisms and precision instruments : principles of design, Oxford ; New York : Pergamon Press ; Warszawa : Wydawnictwa Naukowo-Techniczne, 1971, [COBISS.SI-ID – 5883419]

## Temeljni viri in literatura

### METODE KONČNIH IN ROBNIH ELEMENTOV (0033415)

**Nosilci:** Nikolaj Mole

#### Temeljni viri in literatura:

- [1] O.C. Zienkiewicz, R.L. Taylor, J.Z. Zhu: The Finite Element Method: Its Basis and Fundamentals, Sixth Edition, Elsevier, 2006. [COBISS.SI-ID – 9893915]
- [2] O.C. Zienkiewicz, R.L. Taylor: The Finite Element Method for Solid and Structural Mechanics, Sixth Edition, Elsevier, 2006. [COBISS.SI-ID – 10942486]
- [3] J.N. Reddy: An Introduction to the Finite Element Method, 2nd edition, McGraw Hill Series in Mechanical Engineering, 1993. [COBISS.SI-ID - 758299]
- [4] J. Fish, T. Belytschko: A First Course in Finite Elements, John Wiley & Sons, 2007. [COBISS.SI-ID - 3661921]
- [5] G. Beer, J.O. Watson: Introduction to Finite and Boundary Element Methods for Engineers, John Wiley & Sons, 1992. [COBISS.SI-ID - 760603]
- [6] F. Hartmann: Introduction to Boundary Elements: Theory and Applications, John Springer-Verlag, 1989, 1990. [COBISS.SI-ID - 7593243]

### MODELIRANJE MOTORJEV Z NOTRANJIM ZGOREVANJEM (0033449)

**Nosilci:** Tomaž Katrašnik

- [1] J.B.Heywood: Internal combustion engine fundamentals, McGraw-Hill, N.York,1988, izbrana poglavja, [COBISS.SI-ID – 14910720]
- [2] C.F.Taylor: The Internal combustion engine in theory and practice, Vol.1 – thermodynamics, fluid flow, performance, The MIT Pres, Massachusetts, 1986, izbrana poglavja, [COBISS.SI-ID – 646171]
- [3] R.S. Benson: The Thermodynamics and gas dynamics of Internal Combustion Engines, Volume I, Clarendon Press, Oxford, 1982, Izbrana poglavja, [COBISS.SI-ID – 685586]

### NELINEARNA MEHANIKA GRADIV (0033416)

**Nosilci:** Miha Brojan

- [1] R.W. Ogden: Nonlinear elasticity : theory and applications, Cambridge University Press, 2001 [COBISS.SI-ID – 10664537] e-knjiga
- [2] Bhattacharya, K.: Microstructure of Martensite. Why it Forms and How it Gives Rise to the Shape-Memory Effect, Oxford University Press, New York, 2003 [COBISS.SI-ID – 8739867]
- [3] Mura, T.: Micromechanics of Defects in Solids, Martinus Nijhoff Publishers, 1987 [COBISS.SI-ID – 575977]
- [4] M.T. Shaw: Introduction to polymer rheology, Wiley, 2012 [COBISS.SI-ID – 127146755]
- [5] M. Nagahban: The mechanical and thermodynamical theory of plasticity, CRC Press, 2012 [COBISS.SI-ID – 36778501]

### NELINEARNA NIHANJA STRUKTUR (0033435)

**Nosilci:** Janko Slavič, Miha Boltežar

- [1] N.M.M.Maia, J.M.M.Silva: Theoretical and Experimental Modal Analysis, Research Studies Press, 1997. [COBISS.SI-ID – 11736603]
- [2] K. Worden, G.R. Tomlinson: Nonlinearity in Structural Dynamics: Detection, Identification and Modelling, IoP Publishing, 2001. [COBISS.SI-ID – 1263460]
- [3] Shin K, Hammond J: Fundamentals of Signal Processing for Sound and Vibration Engineers, 2008. [COBISS.SI-ID – 10797595]
- [4] Braun S: Discover Signal Processing: An Interactive Guide for Engineers, 2008. [COBISS.SI-ID – 67633485]
- [5] A.H. Nayfeh, D. Mook: Nonlinear Oscillations, John Wiley & Sons, 1995. [COBISS.SI-ID – 88598]
- [6] S. Mallat: A Wavelet Tour of Signal Processing, 2nd ed., Academic Press, 2001. [COBISS.SI-ID – 4743195]

## Temeljni viri in literatura

- [7] Nikias C.L. , A. Petropulu: Higher order spectra analysis, a nonlinear signal processing framework, Prentice Hall, 1993. [COBISS.SI-ID – 743963]

## NEPORUŠNO TESTIRANJE MATERIALOV IN KONSTRUKCIJ (0033460)

**Nosilci:** Tomaž Kek

- [1] NDE handbook : non-destructive examination methods for condition monitoring, London [etc.] : Butterworths, 1987, cop. 1989 [COBISS.SI-ID – 2508059]
- [2] Basic non-destructive testing glossary , Ljubljana : Slovenian Society for Non-Destructive Testing, 2001 [COBISS.SI-ID – 115247360]
- [3] Non-destructive testing of fibre-reinforced plastics composites., London ; New York : Elsevier, cop. 1987 Vol. 1 [COBISS.SI-ID – 1513755]
- [4] Non-destructive testing of fibre-reinforced plastics composites, London ; New York : Elsevier, Vol. 2 [COBISS.SI-ID – 1514011]
- [5] Introduction to the non-destructive testing of welded joints, Abington, Cambridge : Abington : Woodhead, 1996 [COBISS.SI-ID – 2539803]

## NEVRONSKE MREŽE (0033417)

**Nosilci:** Edvard Govekar, Primož Potočnik

- [1] S. Haykin: Neural Networks: A Comprehensive Foundation, 2/E, Prentice Hall, 1999, [COBISS.SI-ID 1223764].
- [2] C.M. Bishop: Neural Networks for Pattern Recognition, Oxford University Press, 1995, [COBISS.SI-ID 1599515].
- [3] I. Grabec, W. Sachse: Synergetics of measurement, prediction and control, Berlin; Heidelberg; New York: Springer, 1997, [COBISS.SI-ID 63089].
- [4] P. Potočnik: Fundamentals of neural networks, 2023. <https://github.com/pptotoc/Fundamentals-of-Neural-Networks>, [COBISS.SI-ID 142219779]. e-knjiga

## NUMERIČNE METODE (0033418)

**Nosilci:** Janko Slavič

- [1] R. L. Burden, J. D. Faires: Numerical analysis, -7th ed., BROOKS/COLE, 2001. [COBISS.SI-ID – 13924123]
- [2] A. Quarteroni, R. Sacco, F. Saleri: Numerical Mathematics, Springer, 2000. [COBISS.SI-ID – 4050715]
- [3] H. M. Antia: Numerical Methods for Scientists and Engineers, Birkhäuser Verlag, 2002. [COBISS.SI-ID – 1812065]
- [4] J. Nocedal, S.J. Wright: Numerical Optimization, Springer Verlag, 1999. [COBISS.SI-ID – 4066075]

## NUMERIČNE METODE V DINAMIKI FLUIDOV (0033419)

**Nosilci:** Božidar Šarler

- [1] J.H. Ferziger, M. Perić: Computational Methods for Fluid Dynamics, 3rd Edition, Springer-Verlag, 2002. [COBISS.SI-ID – 40359173, COBISS.SI-ID – 5023771, COBISS.SI-ID – 2530075, COBISS.SI-ID – 20391685]
- [2] S.V. Patankar: Numerical heat transfer and fluid flow, Hemisphere Publishing Corp., 1980. [COBISS.SI-ID – 162843]
- [3] H.K. Versteeg, W. Malalasekera: An introduction to computational fluid dynamics: The finite volume method, Longman Scientific & Technical, 1995. [COBISS.SI-ID – 28914181, COBISS.SI-ID – 1260059]
- [4] C.A.J. Fletcher, Computational Techniques for Fluid Dynamics 1, Fundamental and General Techniques, Springer-Verlag, 1988. (izbrana poglavja) [COBISS.SI-ID – 30309889]

## Temeljni viri in literatura

- [5] C.A.J. Fletcher, Computational Techniques for Fluid Dynamics 2, Specific Techniques for Different Flow Categories, Springer-Verlag, 1991 (izbrana poglavja) Dostopno na spletu na DiKUL.

### NUMERIČNO MODELIRANJE SKLOPLJENIH SISTEMOV (0033420)

**Nosilci:** Božidar Šarler, Nikolaj Mole

- [1] Radaj D.: Heat Effects of Welding. Temperature Field, Residual Stress, Distortion; Springer-Verlag, Heidelberg, 1992. [COBISS.SI-ID - 626459]
- [2] O.C. Zienkiewicz, R.L. Taylor: The Finite Element Method for Solid and Structural Mechanics, Sixth Edition, Elsevier, 2006. [COBISS.SI-ID - 10942486]
- [3] E.M. Alawadhi: Finite Element Simulations using ANSYS, CRC Press, 2010. [COBISS.SI-ID - 11713307]
- [4] H. J. P. Morand, R. Ohayon: Fluid Structure Interaction: Applied Numerical Methods, Wiley & Sons, 1995. [COBISS.SI-ID - 39716353]

### OBDELOVALNI STROJI (0033461)

**Nosilci:** Franci Pušavec

- [1] Energy efficient manufacturing: theory and applications. Hoboken (NJ); Beverly (MA): Wiley; Scrivener Publishing, 2018, str. XIV, 451. ISBN 978-1-118-42384-4, [COBISS.SI-ID 158647811]
- [2] Modern manufacturing processes. Hoboken (NJ): Wiley, 2020, str. XXI, 514. ISBN 978-1-118-07192-2, [COBISS.SI-ID 149649411]
- [3] M. P. Groover, Fundamentals of modern manufacturing: materials, processes, and systems, 7th ed. Hoboken (NJ): John Wiley & Sons, 2020, str. XIV, 703, 71, 14. ISBN 978-1-119-72201-4, [COBISS.SI-ID 146641667]
- [4] J. Kopač, Odrezavanje: teoretične osnove in tehnološki napotki. Ljubljana [i. e.] Domžale: [samozašl.] J. Kopač, 2008, str. 264. ISBN 978-961-245-583-5, [COBISS.SI-ID 241209856]
- [5] Z. Bi in X. Wang, Computer aided design and manufacturing. Hoboken, NJ; [New York, New York]: John Wiley & Sons, Inc.; ASME Press, 2020, str. XXI, 18 f., 617. ISBN 978-1-119-53421-1, [COBISS.SI-ID 44464899]
- [6] Kuzman, K. (1988). Tehnološke karakteristike preoblikovalnih strojev (Ponatis 1. izd., str. V, 36 f.). Fakulteta za strojništvo., [COBISS.SI-ID - 7185920]
- [7] Kampuš, Z., & Kuzman, K. (2016). Priporočila preoblikovanja (2. izd., str. IV, 78). Fakulteta za strojništvo., [COBISS.SI-ID - 283051776]
- [8] Hosford, W. F., & Caddell, R. M. (2007). Metal forming: mechanics and metallurgy (3rd ed., str. XIII, 312). Cambridge University Press. <http://www.loc.gov/catdir/toc/ecip0712/2007008558.html>, [COBISS.SI-ID - 10256923]
- [9] Montgomery, D. C. (2005). Design and analysis of experiments (6th ed., str. XV, 643). J. Wiley & Sons., [COBISS.SI-ID - 1495462]
- [10] Injection molding handbook (str. XVII, 748). (2002). C. Hanser Verlag; Hanser Gardner Publications., [COBISS.SI-ID - 4936475]

### OBRATOVALNA TRDNOST (0033436)

**Nosilci:** Jernej Klemenc, Marko Nagode

- [1] Betriebsfestigkeit : sichere und wirtschaftliche Bemessung schwingbruchgefährdeter Bauteile Buxbaum, Otto, Düsseldorf : Strahleisen, 1988 [COBISS.SI-ID - 4426523]
- [2] Reliability and risk assessment ,Andrews, J. D. ; Moss, T. R., Essex : Longman Scientific & Technical, 1993 [COBISS.SI-ID - 858139]
- [3] An introduction to reliability and maintainability engineering Ebeling, Charles E. Long Grove, IL : Waveland Press, cop. 2010 [COBISS.SI-ID - 11713819]
- [4] Fatigue of materials Suresh, Subra, Cambridge ; New York ; Melbourne ; Madrid : Cambridge University Press, 2004 [COBISS.SI-ID - 9388827]

## Temeljni viri in literatura

- [5] Mechanical behavior of materials : engineering methods for deformation, fracture, and fatigue  
Dowling, Norman E., Upper Saddle River, NJ : Prentice Hall, cop. 1999 [COBISS.SI-ID – 44474625]
- [6] Fatigue and fracture mechanics of high risk parts : application of LEFM & FMDM theory  
Farahmand, Bahram ; Bockrath, George ; Glassco, James , New York [etc.] : Chapman & Hall, cop. 1997 [COBISS.SI-ID - 18108677]
- [7] The mechanics of constitutive modeling Ottosen, Niels Saabye ; Ristinmaa, Matti, Amsterdam [etc.] : Elsevier, 2005 [COBISS.SI-ID - 3810401]
- [8] RMS ; Reliability, maintainability, and supportability guidebook, Warrendale : SAE, Society of Automotive Engineers, cop. 1995 [COBISS.SI-ID - 1222427]
- [9] Modeling for reliability analysis : Markov modeling for reliability, maintainability, safety, and supportability analyses of complex systems COBISS.SI-ID : 2860051

### OGREVANJE IN HLAJENJE (0033450)

**Nosilci:** Andrej Kitanovski

- [1] Kotas, T.J.: The Exergy methods of thermal plant analyses.- London: Butterworths, 1985. [COBISS.SI-ID – 1166085]
- [2] Stoecker, W.F.: Design of thermal systems.- 3rd ed.- New York /etc.): McGraw-Hill, 1989. [COBISS.SI-ID – 939269]
- [3] Gosney, W.B.: Principles of refrigeration.- Cambridge /etc./: Cambridge University Press, 1982. [COBISS.SI-ID – 743707]
- [4] ASHRAE Handbook: HVAC Systems and Equipment, Atlanta, 2008, izbrana poglavja. [COBISS.SI-ID – 15736603]
- [5] ASHRAE Handbook: HVAC Application, Atlanta, 2007, izbrana poglavja. [COBISS.SI-ID – 1196827]
- [6] Wrixon, G.T.: Renewable energy – 2000, Berlin, 1993. [COBISS.SI-ID – 14643717]
- [7] Sorensen,B.: Renewable energy conversion, transmission and storage, Amsterdam, 2007. [COBISS.SI-ID – 29233925]

### OPERACIJSKE RAZISKAVE (0033462)

**Nosilci:** Janez Žerovnik

- [1] L. Zadnik-Stirn, Metode operacijskih raziskav za poslovno odločanje. Novo mesto: Visoka šola za upravljanje in poslovanje, 2001. [COBISS.SI-ID – 105716736]
- [2] Bohanec, M., 2006. Odločanje in modeli. DMFA, Ljubljana. [COBISS.SI-ID – 230035968]
- [3] E. Kreyszig: Advanced Engineering Mathematics, (9th edition), Wiley, New York 2006. [COBISS.SI-ID – 69008385]
- [4] J.Hromkovič: Algorithmics for Hard Problems, Introduction to Combinatorial Optimization, Randomization, Approximation, and Heuristics, 2nd ed., Springer, Berlin 2003. [COBISS.SI ID 12551769]
- [5] T. Novak, J. Povh, J.Žerovnik, Izbrana poglavja iz operacijskih raziskav, Fakulteta za strojništvo, 2020. [COBISS.SI-ID –38246915]

### OPTIMIRANJE OBDELOVALNIH TEHNOLOGIJ (0033463)

**Nosilci:** Franci Pušavec

- [1] Energy efficient manufacturing: theory and applications. Hoboken (NJ); Beverly (MA): Wiley; Scrivener Publishing, 2018, str. XIV, 451. ISBN 978-1-118-42384-4, [COBISS.SI-ID 158647811]
- [2] Modern manufacturing processes. Hoboken (NJ): Wiley, 2020, str. XXI, 514. ISBN 978-1-118-07192-2, [COBISS.SI-ID 149649411]
- [3] M. P. Groover, Fundamentals of modern manufacturing: materials, processes, and systems, 7th ed. Hoboken (NJ): John Wiley & Sons, 2020, str. XIV, 703, 71, 14. ISBN 978-1-119-72201-4, [COBISS.SI-ID 146641667]
- [4] J. Kopač, Odrezavanje: teoretične osnove in tehnološki napotki. Ljubljana [i. e.] Domžale: [samozał.] J. Kopač, 2008, str. 264. ISBN 978-961-245-583-5, [COBISS.SI-ID 241209856]

## Temeljni viri in literatura

- [5] Z. Bi in X. Wang, Computer aided design and manufacturing. Hoboken, NJ; [New York, New York]: John Wiley & Sons, Inc.; ASME Press, 2020, str. XXI, 18 f., 617. ISBN 978-1-119-53421-1, [COBISS.SI-ID 44464899]

### OPTIMIZACIJSKE METODE (0033421)

**Nosilci:** Janez Žerovnik

- [1] J.Žerovnik: Osnove teorije grafov in diskretne optimizacije, (druga izdaja), Fakulteta za strojništvo, Maribor 2005. [COBISS.SI-ID – 54389249]
- [2] E. Zakrajšek: Matematično modeliranje, DMFA, Ljubljana 2004. [COBISS.SI-ID – 212906240]
- [3] E. Kreyszig: Advanced Engineering Mathematics, (9th edition), Wiley, New York 2006. [COBISS.SI-ID – 69008385]
- [4] J.Hromkovič: Algorithmics for Hard Problems, Introduction to Combinatorial Optimization, Randomization, Approximation, and Heuristics, 2nd ed., Springer, Berlin 2003. [COBISS.SI-ID – 12551769]
- [5] T. Novak, J. Povh, J.Žerovnik, Izbrana poglavja iz operacijskih raziskav, Fakulteta za strojništvo, 2020. [COBISS.SI-ID – 38246915]#

### POSEBNI POSTOPKI OBDELAVE (0033464)

**Nosilci:** Joško Valentincič

- [1] Madou, Marc J.: Fundamentals of microfabrication : the science of miniaturization, Boca Raton [etc.] : CRC Press, cop. 2002, [COBISS.SI-ID – 5498651]
- [2] Wolfson, Richard ; Pasachoff, Jay M.: Physics : with modern physics for scientists and engineers, Reading [etc.] : Addison-Wesley, cop. 1999, [COBISS.SI-ID – 3319067]
- [3] Kalpakjian, Serope; Schmid, Steven R.: Manufacturing engineering and technology, Singapore [etc.] : Pearson Education South Asia, cop. 2014, [COBISS.SI-ID – 13159707]
- [4] Qin, Yi: Micro-manufacturing engineering and technology, Amsterdam [etc.] : Elsevier : William Andrew, cop. 2010, COBISS.SI-ID – 34316549
- [5] Tosello, Guido: Micro injection molding, Munich ; Cincinnati : Hanser, cop. 2018, [COBISS.SI-ID – 146819075]
- [6] Drstvenšek, Igor, Dolinšek; Slavko Additive layered manufacturing : education, application and business, Maribor : Faculty for Mechanical Engineering, 2010 ([Pesnica pri Mariboru] : Garb), [COBISS.SI-ID – 65536513]
- [7] Izdebska-Podsiadly, Joanna: Polymers for 3D printing : methods, properties, and characteristics, Amsterdam [etc.] : Elsevier : William Andrew, 2022, [COBISS.SI-ID – 111572483]
- [8] Dietrich, David M. ; Kenworthy, Michael ; Cudney, Elizabeth A.: Additive manufacturing change management : best practices, Boca Raton [Florida] ; London ; New York : CRC Press, cop. 2019, [COBISS.SI-ID – 17105667]
- [9] Gibson, Ian ; Rosen, David ; Stucker, Brent: Additive manufacturing technologies : 3D printing, rapid prototyping and direct digital manufacturing, New York : Springer, cop. 2015, [COBISS.SI-ID – 13909019]

### PRENOS TOPLOTE IN SNOVI (0033451)

**Nosilci:** Andrej Kitanovski

- [1] Incropera F.P., DeWitt P.D., Bergman, T.L, Lavine, A.S.: Fundamentals of Heat and Mass Transfer, Sixth Edition, John Wiley and Sons, New York, 2007. (Cobiss ID: 12387634)
- [2] Jiji, Latif Menashi. Heat convection (2nd edition), Springer, 2009, [COBISS.SI-ID – 1541997023] e-vir : <https://link.springer.com/book/10.1007/978-3-642-02971-4>
- [3] Baehr H.D., Stephan K.: Heat and Mass Transfer, Springer Verlag, Berlin, 2006 . (DiKUL)
- [4] Gašperšič B.: Prenos toplote, Univerza v Ljubljani, Fakulteta za strojništvo, Ljubljana, 2001. [COBISS.SI-ID – 111288064]
- [5] Basmadjian D.: Mass Transfer and Separation Processes, CRC Press, Boca Raton, 2007.[ COBISS.SI-ID –

28708357]

- [6] Greene G., Cho Y., Hartnett J., Bar-Cohen A.: Advances in Heat Transfer, 39 / serial publications, Elsevier, Oxford, 2006. COBISS.SI-ID – 1539998431 e-vir <https://www.sciencedirect.com/bookseries/advances-in-heat-transfer/vol/39/suppl/C>

## PROCESI ODREZAVANJA (0033465)

**Nosilci:** Franci Pušavec

- [1] Energy efficient manufacturing: theory and applications. Hoboken (NJ); Beverly (MA): Wiley; Scrivener Publishing, 2018, str. XIV, 451. ISBN 978-1-118-42384-4, [COBISS.SI-ID 158647811]
- [2] Modern manufacturing processes. Hoboken (NJ): Wiley, 2020, str. XXI, 514. ISBN 978-1-118-07192-2, [COBISS.SI-ID 149649411]
- [3] M. P. Groover, Fundamentals of modern manufacturing: materials, processes, and systems, 7th ed. Hoboken (NJ): John Wiley & Sons, 2020, str. XIV, 703, 71, 14. ISBN 978-1-119-72201-4, [COBISS.SI-ID 146641667]
- [4] J. Kopač, Odrezavanje: teoretične osnove in tehnološki napotki. Ljubljana [i. e.] Domžale: [samoza] J. Kopač, 2008, str. 264. ISBN 978-961-245-583-5, [COBISS.SI-ID 241209856]
- [5] Z. Bi in X. Wang, Computer aided design and manufacturing. Hoboken, NJ; [New York, New York]: John Wiley & Sons, Inc.; ASME Press, 2020, str. XXI, 18 f., 617. ISBN 978-1-119-53421-1, [COBISS.SI-ID 44464899]

## PROCESI PREOBLIKOVANJA GRADIV (0033466)

**Nosilci:** Tomaž Pepelnjak

- [1] Montgomery, D. C. (2009). Design and analysis of experiments (7th ed., str. XVII, 656). John Wiley & Sons., [COBISS.SI-ID – 11603483]
- [2] Gologranc, F. (1991). Preoblikovanje (str. Zv. <1-2>). Fakulteta za strojništvo., COBISS.SI-ID – 24041728
- [3] Kampuš, Z., & Kuzman, K. (2016). Priporočila preoblikovanja (2. izd., str. IV, 78). Fakulteta za strojništvo., [COBISS.SI-ID – 283051776]
- [4] Hosford, W. F., & Caddell, R. M. (2007). Metal forming: mechanics and metallurgy (3rd ed., str. XIII, 312). Cambridge University Press. <http://www.loc.gov/catdir/toc/ecip0712/2007008558.html>, [COBISS.SI-ID – 10256923]
- [5] Injection molding handbook (str. XVII, 748). (2002). C. Hanser Verlag; Hanser Gardner Publications., [COBISS.SI-ID – 4936475]
- [6] Montgomery, D. C. (2005). Design and analysis of experiments (6th ed., str. XV, 643). J. Wiley & Sons., [COBISS.SI-ID – 1495462]
- [7] Brezočnik, M. (2000). Uporaba genetskega programiranja v inteligenčnih proizvodnih sistemih (str. XI, 160). Fakulteta za strojništvo., [COBISS.SI-ID – 45033217]

## PROCESI VARJENJA (0033467)

**Nosilci:** Damjan Klobčar

- [1] Tušek, Janez. Varjenje in sorodne tehnike spajanja materialov v neločljivo zvezo, Fakulteta za strojništvo, 2015, str. XII, 467, [COBISS.SI-ID – 282414848], ISBN - 978-961-6536-75-2.
- [2] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 1 - Welding Science and Technology, Miami, FL: American Welding Society, 2001. [COBISS.SI-ID – 38102021]
- [3] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 2 - Welding Processes, Part 1, Miami, FL: American Welding Society, 2004. [COBISS.SI-ID – 173761]  
<https://search.ebscohost.com/login.aspx?direct=true&db=e000xww&AN=1839114&lang=sl&site=ehost-live>
- [4] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 3 - Welding Processes, Part 2, Miami, FL: American Welding Society, 2007.  
<https://search.ebscohost.com/login.aspx?direct=true&db=e000xww&AN=1839115&lang=sl&site=ehost-live>

## Temeljni viri in literatura

- [5] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 4 - Materials and Applications, Part 1, Miami, FL: American Welding Society, 2011.  
<https://search.ebscohost.com/login.aspx?direct=true&db=e000xww&AN=1839116&lang=sl&site=ehost-live>
- [6] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 5 - Materials and Applications, Part 2, Miami, FL: American Welding Society, 2015.  
<https://search.ebscohost.com/login.aspx?direct=true&db=e000xww&AN=1839117&lang=sl&site=ehost-live>
- [7] Rak, Inoslav. Tehnologija varjenja. 1. izd., Modrijan, 2008, str. 460. [COBISS.SI-ID – 239269376]
- [8] Jeffus, Larry F. Welding: principles and applications. 7th ed., Thomson Delmar Learning , 2012, str. XXV, 911, [COBISS.SI-ID –29767429].
- [9] Kou, Sindo. Welding metallurgy. 2nd ed., John Wiley & Sons, 2003, str. XIV, 461, [COBISS.SI-ID – 12047387].

## RAČUNALNIŠKO INTEGRIRANI OBDELOVALNI IN DELOVNI SISTEMI CIM/FMS (0033468)

**Nosilci:** Rok Vrabič

- [1] Groover, Mikell P.: Automation, production systems, and computer-integrated manufacturing, New York (NY) : Pearson, cop. 2019 [COBISS.SI-ID – 146606595]
- [2] Peklenik, Janez: Manufacturing systems evolution : selected papers, Ljubljana : Faculty of Mechanical Engineering, 1996 [COBISS.SI-ID – 63234304]
- [3] Balič, Jože: Intelligent manufacturing systems : programming and control, Maribor : Faculty of Mechanical Engineering, Laboratory for Intelligent Manufacturing ; Chania : Technical University of Crete, Department of Production Engineering and Management, 2003 [COBISS.SI-ID – 50311169]
- [4] Arezki Mellal, Mohamed: Manufacturing systems : recent progress and future directions [COBISS.SI-ID – 36076803], e-knjiga na DiKUL
- [5] Jao, Chiang S.: Decision support systems, 2010 [COBISS.SI-ID – 737143], e-knjiga na DiKUL
- [6] Lenarčič, Jadran, Roth, Bernard: Advances in robot kinematics : mechanisms and motion [COBISS.SI-ID - 19949863]

## SINERGETIKA (0033422)

**Nosilci:** Edvard Govekar

- [1] I. Grabec, J. Gradišek: Opis naključnih pojavov, Fakulteta za strojništvo, 2000. - Izbrana poglavja [COBISS.SI-ID – 276189696]
- [2] H. Haken: Synergetics: an introduction : nonequilibrium phase transitions and self-organization in physics, chemistry, and biology, Springer Verlag, 1983, [COBISS.SI-ID – 448795].
- [3] F. Moon: Chaotic and fractal dynamics: an introduction for applied scientists and engineers, J. Wiley & Sons, 1992, [COBISS.SI-ID – 34245121].

## SISTEMI KAKOVOSTI (0033469)

**Nosilci:** Drago Bračun

- [1] Douglas C., Jennings Cheryl L., Pfund Michele E, Managing, controlling, and improving quality, Wiley [COBISS.SI-ID – 14560790]
- [2] DeVor Richard E., Chang Tsong-How, Sutherland John W., Statistical quality design and control 1958- Pearson [COBISS.SI-ID – 12197403]
- [3] Montgomery Douglas C., Design and analysis of experiments, Wiley & Sons, [COBISS.SI-ID – 11603483]
- [4] Myers Raymond H., Montgomery Douglas C, Anderson-Cook Christine M., Response surface methodology: process and product optimization using designed experiments, Wiley [COBISS.SI-ID – 11604251]

## SISTEMI PLANIRANJA IN VODENJA PROIZVODNJE (0033470)

**Nosilci:** Tomaž Berlec

- [1] San Cristóbal Mateo, José Ramón: Management science, operations research and project management , 2015, [COBISS.SI-ID – 14358299]
- [2] Phanden, Rakesh Kumar | Ajai, Jain | Davim, J. Paulo: Integration of process planning and scheduling : approaches and algorithms, 2020, [COBISS.SI-ID – 17409539]
- [3] Liker, Jeffrey K.: The Toyota way : 14 management principles from the world's greatest manufacturer, 2nd ed., 2021, [COBISS.SI-ID – 67462403]
- [4] J Reid, R. Dan ; Sanders, Nada R.: Operations management : an integrated approach, 7th ed, Wiley cop, 2020, [COBISS.SI-ID – 146810371].
- [5] J Akhtar, Jawad: Production planning and control with SAP ERP, 2nd ed. 2016, [COBISS.SI-ID – 15131163]

## SOČASNO INŽENIRSTVO (0033471)

**Nosilci:** Tomaž Berlec

- [1] Shtub, Avraham ; Cohen, Yuval: Introduction to industrial engineering, 2016, [COBISS.SI-ID – 38399749]
- [2] Biren Prasad: Concurrent Engineering Fundamentals, Volume I, Prentice Hall PTR, 1996, [COBISS.SI-ID – 3573287]
- [3] Biren Prasad: Concurrent Engineering Fundamentals, Volume II, Prentice Hall PTR, 1997, [COBISS.SI-ID – 3710503].
- [4] Stjepandić, Josip | Wognum, Nel | Verhagen, Wim J. C.: Concurrent engineering in the 21st century : foundations, developments and challenges, 2015, [COBISS.SI-ID – 14071835]
- [5] STARBEK, Marko, GRUM, Janez, BREZOVAR, Aleš, KUŠAR, Janez. Techniques and analyses of sequential and concurrent product development processes. V: LEONDES, Cornelius T. (ur.). Intelligent knowledge-based systems : business and technology in the new millennium. Vol. 2, Information technology. Kluwer Academic, 2005, str. 123-176., [COBISS.SI-ID – 7881755]

## STABILNOST (0033438)

**Nosilci:** Miha Brojan

- [1] Timošenko, S.: Theory of elastic stability.- New York: McGraw-Hill, 1961 [COBISS.SI-ID – 10993925]
- [2] J.M.T. Thompson, G.W. Hunt: A general theory of elastic stability, Wiley & Sons, 1973 [COBISS.SI-ID – 280553]
- [3] Iyengar, N. G. R.: Structural stability of columns and plates.- New York: Ellis Horwood, 1988 [COBISS.SI-ID – 170501]
- [4] Z.P. Bažant, L. Cedolin: Stability of structures : elastic, inelastic, fracture and damage theories, Oxford University Press, 1991 [COBISS.SI-ID – 630043]
- [5] G.J. Simitses, D.H. Hodges: Fundamentals of structural stability, Elsevier/Butterworth-Heinemann, 2006 [COBISS.SI-ID – 11903771]

## TEHNIČNA DIAGNOSTIKA (0033439)

**Nosilci:** Mitjan Kalin

- [1] Cornelius Scheffer, Paresh Girdhar: Machinery Vibration Analysis- predictive maintenance. Elsevier, 2004 [COBISS.SI-ID – 7541787]
- [2] Grosch, J.: Schadenskunde im Maschinenbau: charakteristische Schaden-sursachen- Analyse und Aussagen von Schadensfällen / Johann Grosch und Mautoren.- 2., völlig neuberarbeitete Aufl.- Renningen-Malmsheim: Expert, 1995 [COBISS.SI-ID – 16061723]
- [3] Handbook of condition monitoring / ed. by B.K.N. Rao.- Oxford: Elsevier, 1996 [COBISS.SI-ID – 1996059]

## Temeljni viri in literatura

### TEHNIČNI INFORMACIJSKI SISTEMI (0033440)

**Nosilci:** Jože Tavčar

- [1] Rude S.: Wissenbasiertes Konstruieren, Shaker Verlag, Aachen, 1998 [COBISS-ID – 2951195]
- [2] Prasad B.: Concurrent Engineering Fundamentals, Vol. I Integrated product and process, Prentice Hall 1996 [COBISS-ID – 3573287]
- [3] Stark, J.: Engineering information management systems: beyond CAD/CAM to concurrent engineering support.- New York: Van Nostrand Reinhold, 1992.- (Automation in manufacturing series) #COBISS.SI-ID – 454171]

### TEORIJA GRADIV (0033423)

**Nosilci:** Roman Šturm

- [1] Physical metallurgy. Vol. 1, 2, 3 / edited by R.W. Cahn, P. Haasen.- Amsterdam etc.: North-Holland, 1996, [COBISS.SI-ID – 34044165]
- [2] Sinha A.K.: Physical Metallurgy Handbook, McGraw Hill Handbooks, New York, 2003 [COBISS.SI-ID – 5498395]
- [3] Guy A.G.: Introduction to Materials Science, McGraw-Hill, Kogakusha, Tokyo, New York 1972 [COBISS.SI-ID – 1449775]
- [4] Tilley R.I.D.: Understanding Solids, The Science of Materials, John Wiley & sons, Chichester 2004 [COBISS.SI-ID – 503647]
- [5] Handbook of residual stress and deformation of steel / edited by G. Totten, M. Howes, T. Inoue.- Materials Park, Ohio: ASM International, 2001 cop. 2002 [COBISS.SI-ID – 5122843]
- [6] Grum J.: Laser surface hardening. V: TOTTEN, George E. (ur.), FUNATANI, Kiyoshi (ur.), XIE, Lin (ur.). Handbook of metallurgical process design, (Materials engineering, 24). New York; Basel: M. Dekker, cop. 2004, str. 641-731. [COBISS.SI-ID – 7378203]
- [7] Grum J.: Laser surface hardening. V: TOTTEN, George E. (ur.). Steel heat treatment : equipment and process design. 2nd ed. Boca Raton: Taylor & Francis, cop. 2007, str. 435-566. [COBISS.SI-ID – 9694235]

### TEORIJA KONSTRUIRANJA (0033441)

**Nosilci:** Roman Žavbi

- [1] Suh, Nam P. Axiomatic design: advances and applications, New York: Oxford University Press, 2001, [COBISS.SI ID – 5648155]
- [2] Roozenburg, N.F.M., Eekels, J. Product design: fundamentals and methods, Chichester: John Wiley & Sons, 1995, [COBISS.SI ID – 1260827]
- [3] Chakrabarti, A. Engineering design synthesis: understanding, approaches, and tools, London : Springer, cop. 2002, [COBISS.SI ID – 5077019]
- [4] Nachtigall, W., Bionik : Grundlagen und Beispiele für Ingenieure und Naturwissenschaftler, 2., vollständig neu bearbeitet Aufl., Berlin [etc.] : Springer, 2002, [COBISS.SI ID – 24460293]
- [5] Pahl, G., Beitz, W., Feldhusen, J., Grote, K-H. Konstruktionslehre : Grundlagen erfolgreicher Produktentwicklung Methoden und Anwendung, 7. Aufl., Berlin, Heidelberg: Springer, 2007 (selected chapters), [COBISS.SI ID – 10712091]
- [6] Eris, O. Effective inquiry for innovative engineering design, Boston: Kluwer Academic Publishers, cop. 2004, [COBISS.SI ID – 10615067]
- [7] Farin, G. Curves and surfaces for CAGD : a practical guide, 5th ed., San Francisco: M. Kaufmann, 2002, [COBISS.SI ID - 8016923]

### TEORIJA TERMOPLASTIČNOSTI (0033442)

**Nosilci:** Miroslav Halilovič

- [1] W.F. Hosford, R.M. Caddell: Metal Forming: Mechanics and Metallurgy, Cambridge University Press, 2007. [COBISS.SI-ID - 10256923]

#### Temeljni viri in literatura

- [2] H\_C.Wu: Continuum Mechanics and Plasticity, Chapman&Hall/CRC, 2005. [COBISS.SI-ID - 7879195]
- [3] N. Node, R.B. Hetnarski, Y. Tanigawa: Thermal stresses, Taylor&Francis, 2003. [COBISS.SI-ID - 28887301]
- [4] J. D. Lubahn, R.P. Felgar: Plasticity and creep of metals, Wiley, 1961. [COBISS.SI-ID - 14193447]
- [5] R.Hill: The mathematical theory of plasticity, 6th edition, The Clarendon Press, 1971. [COBISS.SI-ID - 7106331]

### TEORIJA TURBINSKIH STROJEV (0033424)

**Nosilci:** Marko Hočev, Mihael Sekavčnik

- [1] Pfleiderer, C., Petermann, N.: Strömungsmaschinen.- 4. Aufl.- Berlin etc.: Springer, 1972 [COBISS.SI-ID - 8907525]
- [2] Raabe, J.: Hydro power: the design, use and function of hydromechanical, hydraulic and electrical equipment.- Düsseldorf: VDI, 1985 [COBISS.SI-ID - 378907]
- [3] Lakshminarayana, B.: Fluid dynamics and heat transfer of turbomachinery.- New York etc.: J. Wiley & Sons, 1996 [COBISS.SI-ID - 17136645]
- [4] B.Širok, M.Dular, B.Stoffel. Kavitacija. 1. natis. Ljubljana: i2, 164 str., 2006 [COBISS.SI-ID - 227838208]
- [5] Saravanamuttoo H., Rogers G., Cohen H.: Gas turbine theory, 5th Edition, Prentice Hall, 2001[COBISS.SI-ID - 42078465]

### TEORIJA VISKOELASTIČNOSTI (0033443)

**Nosilci:** Lidija Slemenik Perše

- [1] Lakes, Roderic S., Viscoelastic materials, New York : Cambridge University Press, 2009, ISBN - 978-0-521-88568-3, [COBISS.SI-ID - 11300123]
- [2] Ferry, J.D.: Viscoelastic Properties of Polymers.- 3rd ed.- New York: J. Wiley & Sons, 1980, ISBN - 0-471-04894-1; [COBISS.SI-ID - 139823]
- [3] Osswald, Tim A. ; Rudolph, Natalie, Polymer rheology: fundamentals and applications, Munich: Hanser Publishers; Cincinnati: Hanser Publications, 2015, ISBN - 978-1-56990-517-3, [COBISS.SI-ID - 100459267]
- [4] Tschoegl, N.W.: The Phenomenological Theory of Linear Viscoelastic Behavior.- Springer-Verlag, 1989, ISBN - 3-540-19173-9, [COBISS.SI-ID - 7249435]
- [5] Shaw, Montgomery T., Introduction to polymer rheology, Hoboken (NJ): Wiley, 2012, ISBN - 978-0-470-38844-0, [COBISS.SI-ID - 127146755]
- [6] Wineman, A.S., Rajagopal, K.R.: Mechanical Response of Polymers, an Introduction; Cambridge University Press, 2000, SBN - 0-521-64337-6; 0-521-64409-7, [COBISS.SI-ID - 22599685]

### TEORIJA ZGOREVANJA (0033452)

**Nosilci:** Andrej Senegačnik, Tomaž Katrašnik

- [1] Strehlow, Roger A. Combustion fundamentals. New York: McGraw-Hill, 1985, ISBN: 0-07-466599-0. [COBISS.SI-ID - 16265473]
- [2] Williams, Forman Arthur. Combustion theory : the fundamental theory of chemically reacting flow systems. Menlo Park; Californija : The Benjamin /Cummings, 1985, ISBN: 0-8053-9801-5. [COBISS.SI-ID - 225051]
- [3] Cant, R. S. Mastorakos, E. An introduction to turbulent reacting flows. London : Imperial College Press, cop. 2008. ISBN: 1-86094-778-6. [COBISS.SI-ID - 29736709]

### TERMOENERGETSKA ANALIZA PROCESOV (0033453)

**Nosilci:** Andrej Senegačnik

**Temeljni viri in literatura:**

## Temeljni viri in literatura

- [1] Avtorji: člani Laboratorija za energetsko strojništvo; Zbirka člankov, objavljenih referatov in izvedenih projektov s področja preizkušanja termoenergetskih postrojenj. Izbor je določen glede na področje, za vsakega kandidata posebej.
- [2] A. Bejan, G. Tsatsaronis, M. Moran, 'Thermal design and optimization, J. Wiley & Sons, 1996, ISBN - 0-471-58467-3, [COBISS.SI-ID – 3433755]
- [3] I. Dinçer, M.A. Rosen, Exergy : energy, environment, and sustainable development, Elsevier, 2013, ISBN - 978-0-08-097089-9, [COBISS.SI-ID – 13381915]
- [4] Yehia M. El – Sayed;The Thermoconomics of Energy Conversions, Elsevier, 2003, ISBN - 0-08-044270-6, [COBISS.SI-ID – 7331867]
- [5] A. Bejan, Entropy generation minimization : the method of thermodynamic optimization of finite-size systems and finite-time processes, CRC, 1996, ISBN - 0-8493-9651-4, [COBISS.SI-ID – 1486619]
- [6] A. Bejan, Advanced engineering thermodynamics, J. Wiley & Sons, 2006, ISBN - 0-471-67763-9; 978-0-471-67763-5, [COBISS.SI-ID – 9714459]

## TERMOENERGETSKI SISTEMI (0033454)

**Nosilci:** Mihael Sekavčnik

- [1] Jeffs, Eric J.: Generating power at high efficiency : combined-cycle technology for sustainable energy production, Cambridge, CRC Press, 208, [COBISS.SI-ID – 1024001628]
- [2] R. Bachmann, H. Nielsen, J. Warner, R. Kehlhofer: Combined - Cycle Gas & Steam Turbine Power Plants, Penn Well, 1999, [COBISS.SI-ID – 5046299]
- [3] L. Drbal, K. Westra, P. Boston: Power Plant Engineering, Champman & Hall, 1995, [COBISS.SI ID – 2077974]
- [4] J. Larminie, A. Dicks: Fuel Cell Systems Explained, John Willey & Sons, 2001, [COBISS.SI-ID – 4471323]
- [5] Singhal, Subhash C.: High temperature solid oxide fuel cells : fundamentals, design, and applications, Elsevier, 2003, [COBISS.SI-ID – 25870853]
- [6] Ferrari, Mario L.: Hybrid systems based on solid oxide fuel cells : modelling and design, J. Willey & Sons, 2017, [COBISS.SI-ID – 39468805]

## TOPLOTNA OBDELAVA IN OPLEMENITENJE POVRŠIN (0033473)

**Nosilci:** Roman Šturm

- [1] Steel Heat Treatment Handbook, 2nd edition, Eds.: George E. Totten, M.A.H. Maurice; Marcel Dekker Inc, New York, 1997. [COBISS.SI-ID – 17414917]
- [2] Chryssolouris, G.: Laser machining: theory and practice.- New York; Berlin: Springer-Verlag, 1991.- (Mechanical engineering series). [COBISS.SI-ID – 229915]
- [3] Steen, W.M.: Laser material processing.- London; Berlin: Springer-Verlag, 1991. [COBISS.SI-ID – 11579419]
- [4] Advanced surface coatings: a handbook of surface engineering / ed. by D.S. Rickerby and A. Matthews.- Glasgow; London: Blackie & Son; New York: Chapman and Hall, 1991. [COBISS.SI-ID – 388635]
- [5] Selected journals: Materials science and engineering, fCOBISS.SI-ID – 43270403g- Surface science [COBISS.SI ID 3268111] .- HTM: Härterei-Technische Mitteilungen fCOBISS.SI ID 4646410, 583442].

## TRANSPORTNI SISTEMI IN LOGISTIKA (0033444)

**Nosilci:** Boris Jerman

- [1] C. Seeßelberg: Kranbahnen, Bemessung und konstruktive Gestaltung; Bauwerk Verlag GmbH, Berlin 2005 [COBISS.SI-ID – 8929819]
- [2] Lawrence K. Shapiro; Jay P. Shapiro: Cranes and derricks; McGraw-Hill, New York 2011 [COBISS.SI-ID – 11891739]
- [3] H.Buhrke, H.J.Kecke, H.Richter: Strömungsförderer : Hydraulischer und pneumatischer Transport in Rohrleitungen; VEB Verlag Technik, Berlin, 1988 [COBISS.SI-ID – 4929550]

## Temeljni viri in literatura

- [4] Dieter Arnold: Materialflusslehre, 2. verbesserte Auflage, Vieweg 1998 [COBISS.SI-ID – 2860571]
- [5] Heinrich Martin: Transport- und Lagerlogistik; Planung, Aufbau und Steuerung von Transport- und Lagersystemen; Friedr. Vieweg & Sohn Verlagsgesellschaft mbH, Braunschweig, 1995 [COBISS.SI-ID – 1264411]
- [6] Carlos F. Daganzo: Logistic Systems Analysis; Springer Verlag, 1999 [COBISS.SI-ID – 3254811]
- [7] Paul Myerson: Lean supply chain and logistics management; McGraw-Hill, New York 2012 [COBISS.SI-ID – 2349411]
- [8] Sumit Ghosh, Tony Lee: Intelligent transportation systems: new principles and architectures; CRC Press, Boca Raton 2000 [COBISS.SI-ID – 5496091]

## TRIBOLOGIJA (0033445)

**Nosilci:** Mitjan Kalin

- [1] Williams, J.A.: Engineering tribology.- Oxford etc.: Oxford University Press, 1994.- (Oxford science publications) [COBISS.SI-ID – 16271877]
- [2] Stachowiak, G.W., Batchelor, A.W.: Engineering tribology.- Amsterdam etc.: Elsevier, 1993.- (Tribology series; 24) [COBISS.SI-ID – 736283]
- [3] Stolarski, T.A.: Tribology in machine design.- Reprinted.- Oxford etc.: Butterworth-Heinemann, BH, 2000 [COBISS.SI-ID – 3558427]
- [4] Hutchings, I.M.: Tribology: friction and wear of engineering materials.- London ... etc.: Edward Arnold, cop. 1992.- (Metallurgy & materials science series) [COBISS.SI-ID – 1156635]

## UPORABNA STATISTIKA V TEHNIKI (0033426)

**Nosilci:** Edvard Govekar

- [1] I. Grabec, J. Gradišek: Naključni pojavi; Fakulteta za strojništvo, 2000; [COBISS.SI-ID – 276189696]
- [2] E. Govekar. Naključni pojavi: elektronski zapiski in interaktivni učbenik. Ljubljana:  
Fakulteta za strojništvo, 2005. <http://lab.fs.uni-lj.si/lasin/www/teaching/np/predavanja.htm>, [COBISS.SI-ID – 11321371]
- [3] L. Wasserman; All of Statistics, A concise Course in Statistical Inference, Springer, 2004, [COBISS.SI-ID – 14934758]
- [3] D. C. Montgomery in G. C. Runger: Applied Statistics and Probability for Engineers, John Wiley & Sons, Inc., New York, 1994, [COBISS.SI-ID – 15100165].
- [4] P.J.Huber, E. M. Ronchetti; Robust Statistics, Second Edition, John Wiley, 2009, [COBISS.SI-ID – 13030939]
- [5] T. Masters; Advanced algorithms for neural networks, John Willey & Sons ,1991, [COBISS.SI-ID – 204111]

## VARJENJE, REZANJE IN NAVARJANJE Z VISOKO GOSTOTO ENERGIJE (0033474)

**Nosilci:** Damjan Klobčar

- [1] Tušek, Janez. Varjenje in sorodne tehnike spajanja materialov v neločljivo zvezo, Fakulteta za strojništvo, 2015, str. XII, 467, [COBISS.SI-ID – 282414848], ISBN - 978-961-6536-75-2.
- [2] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 1 - Welding Science and Technology, Miami, FL: American Welding Society, 2001. [COBISS.SI-ID – 38102021]
- [3] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 2 - Welding Processes, Part 1, Miami, FL: American Welding Society, 1991 [COBISS.SI-ID – 173761]
- [4] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 3 - Welding Processes, Part 2, Miami, FL: American Welding Society, 2007.  
<https://search.ebscohost.com/login.aspx?direct=true&db=e000xww&AN=1839115&lang=sl&site=ehost-live>
- [5] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 4 - Materials and Applications, Part 1, Miami, FL: American Welding Society, 2011.

## Temeljni viri in literatura

- <https://search.ebscohost.com/login.aspx?direct=true&db=e000xww&AN=1839116&lang=sl&site=ehost-live>  
[6] O'Brien, Annette. Welding Handbook. Ninth edition. Vol. 5 - Materials and Applications, Part 2, Miami, FL: American Welding Society, 2015.  
<https://search.ebscohost.com/login.aspx?direct=true&db=e000xww&AN=1839117&lang=sl&site=ehost-live>  
[7] Rak, Inoslav. Tehnologija varjenja. 1. izd., Modrijan, 2008, str. 460, COBISS SI. ID - 56<59<6:9  
[8] Jeffus, Larry F. Welding: principles and applications. 6th ed., Thomson Delmar Learning, 2008, str. XXV, 911, [COBISS.SI-ID – 29767429].  
[9] Kou, Sindo. Welding metallurgy. 2nd ed., John Wiley & Sons, 2003, str. XIV, 461, [COBISS.SI-ID – 12047387].

### VEČFAZNI TOK (0033455)

**Nosilci:** Božidar Šarler

- [1] C. E. Brennen: Fundamentals of Multiphase Flow, Cambridge University Press, 2005– Selected chapters. Dostopno na spletu  
<https://plus.cobiss.net/cobiss/ul/sl/bib/search?q=Fundamentals+of+Multiphase+Flow&db=ul&mat=allmaterials&ds=true>
- [2] S. Levy: Two-phase Flow in Complex Systems, John Wiley & Sons, 1999– Selected chapters. [COBISS.SI-ID – 15100455]
- [3] A. Faghri, Z. Zhang: Transport Phenomena in Multiphase Systems, Academic Press, 2006 – Selected chapters [COBISS.SI-ID – 9875483]
- [4] M. Ishii, T. Hibiki: Thermo-fluid Dynamics of Two-phase Flow, Springer 2006– Selected chapters. Dostopno na spletu

### VERJETNOST IN MATEMATIČNA STATISTIKA (0033425)

**Nosilci:** Aljoša Peperko

- [1] M. A. Rice, Mathematical Statistics and Data Analysis, 2nd edition, Duxbury Press, 1995, [COBISS.SI-ID – 2005787]
- [2] S. Weisberg, Applied Linear Regression, 2 nd Ed., John Wiley & Sons, 1985, [COBISS.SI-ID – 1229351]
- [3] G. Samorodnitsky in M.S. Taqqu, Stable non-Gaussian random processes: stochastic models with innite variance, Stochastic modeling, Chapman & Hall/CRC, Boca Raton, 1994, [COBISS.SI-ID – 3646235]
- [4] B. R. Martin in M. F. Hurwitz, Probability and statistics for physical sciences, 2nd ed. London: Academic Press, Elsevier, 2024, [COBISS.SI-ID – 183139843]