

Geologija UNI 1. stopnja

2. Letnik -obvezni predmeti

Geokemija
<ul style="list-style-type: none">- WHITE, W. M., 2013, Geochemistry.- Whiley-Blackwell, New York, 660 pp.- ALBAR&Egrave;DE, F., 2009, Geochemistry. An Introduction. Cambridge University Press, Cambridge, 248 pp.- KRAUSKOPF, K. B. & BIRD, D. K., 1994, Introduction To Geochemistry.- ROLLINSON, H., 1993, Using geochemical data: evaluation, presentation, interpretation.- Longman Scientific & Technical, 352 pp.

Mineralne surovine
<ul style="list-style-type: none">- RIDLEY, John. Ore deposit geology. Cambridge University Press, 2013.- ROBB, Laurence. Introduction to ore-forming processes. John Wiley & Sons, 2013.- DIMKOVSKI, Trajan, ROKAVEC Duška: Nahajališča nekovinskih mineralnih surovin v Sloveniji: površinski kop. Ljubljana: Geološki zavod Slovenije, 2001. 123 str.- DROVENIK, Matija, Nahajališča mineralnih surovin. Ljubljana, Fakulteta za naravoslovje in tehnologijo, 1984, 375 str.- SINTON, Christopher W., Raw materials for glass and ceramics : sources, processes, and quality control. Hoboken : Wiley, 2006. 356 str.

Petrologija magmatskih kamnin
<ul style="list-style-type: none">- DOLENEC, Matej. Študijsko gradivo za predavanja in vaje Petrologija magmatskih kamnin : uradno priznana klasifikacija magmatskih kamnin po IUGS. Ljubljana: NTF, Odd. za geologijo, 2020.- DOLENEC, T., DOLENEC, M. Študijsko gradivo s predmeta Petrologija magmatskih in metamorfnih kamnin : [vprašanja in odgovori]. Prva izd. Ljubljana: UL, NTF, Odd. za geologijo, feb. 2009.- DOLENEC M., DOLENEC, T.: Priročnik za vaje iz petrologije magmatskih in metamorfnih kamnin. Ljubljana: NTF, Oddelek za geologijo, 2001. 244 str., ilustr., graf. prikazi.- DOLENEC, Matej. Petrologija magmatskih in metamorfnih kamnin - strukture in tekture : Geologi 2. letnik. Ljubljana: NTF, Odd. za geologijo, 2016.- DOLENEC, Matej. Dvokomponentni diagrami : študijsko gradivo za predavanja Petrologija magmatskih in metamorfnih kamnin. Ljubljana: Univ. v Ljubljani, NTF, Odd. za geologijo, 2014.- YODER, Hatten Schuyler. Evolution of the Igneous Rocks. Princeton University Press, 2015. Project MUSE.- WINTER, J.D. Principles of Igneous and Metamorphic Petrology, 2014, Pearson Education.- BLATT, H., TRACY, R., OWENS, B. Petrology: igneous, sedimentary, and metamorphic. WH Freeman, 2005.- RAYMOND, L.A. Petrology: The Study of Igneous, Sedimentary and Metamorphic Rocks, Waveland Press. 2007.- RAGLAND, P.C. Basic analytical petrology. New York: Oxford University Press, 1989.- BARD, J.P.: Microtextures of Igneous and Metamorphic Rocks. D.Reidl Publishing Company, Dordrecht, Holland. 264 str., 1986.

Petrologija metamorfnih kamnin

- BARD, J.P.: Microtextures of Igneous and Metamorphic Rocks. D.Reidl Publishing Company, Dordrecht, Holland, 1986.
- BLATT, H., TRACY, R., OWENS, B. Petrology: igneous, sedimentary, and metamorphic. WH Freeman, 2005.
- HOLLOCHER, K.: A Pictorial Guide to Metamorphic Rocks in the Field, CRC Press, Taylor & Francis Group, 2014.
- RAGLAND, P.C. Basic analytical petrology. Oxford University Press, 1989.
- RAYMOND, L.A. Petrology: The Study of Igneous, Sedimentary and Metamorphic Rocks, Waveland Press, 2007.
- WINTER, J.D. Principles of Igneous and Metamorphic Petrology, Pearson Education, 2014.

Sedimentna petrologija

- BOGGS, S. Jr., 2009: Petrology of Sedimentary Rocks. Cambridge Univ. Press, Cambridge, 600 p.
- LEYRIT, H. & MONTENAT, C. (Eds.), 2000: Volcaniclastic Rocks, from Magmas to Sediments. Gordon and Breach Science Publishers, Amsterdam, 299 p.
- NICHOLS, G., 1999: Sedimentology and Stratigraphy. Blackwell Science, Oxford, 355 p.
- TIŠLIJAR, J., 2001: Sedimentologija karbonata i evaporita, Institut za geološka istraživanja, Zagreb, 375 p.
- TUCKER, M., 2011: Sedimentary Rocks in the Field, 4th ed., Wiley-Blackwell, UK, 275 p
- TUCKER, M., 2001: Sedimentary Petrology. 3rd ed., Blackwell Science, Oxford, 262 p.
- TUCKER, M. (Ed.), 1988: Techniques in sedimentology. Blackwell Scientific Publications, Oxford, 394 p.
- ADAMS, A.E., MACKENZIE, W.S. & GUILFORD, C., 1994: Atlas of sedimentary rocks under the microscope. John Wiley & Sons, New York, 104 p.
- ADAMS, A.E. & MACKENZIE, W.S., 2001: A Colour Atlas of Carbonate Sediments and Rocks Under the Microscope. Manson Publishing, London, 180 p.
- SCHOLLE, P.A., 1978: A Color Illustrated Guide To Carbonate Rock Constituents, Textures, Cements, and Porosities. The American Association of Petroleum Geologists, Memoir 27, U.S.A., 241 p.
- SCHOLLE, P.A., 1979: A Color Illustrated Guide To Constituents, Textures, Cements, and Porosities of sandstones and Associated Rocks. The American Association of Petroleum Geologists, Memoir 28, U.S.A., 201 p.

Geologija kvartarja

- BENN D.I. & EVANS D.J.A. 2010: Glaciers and Glaciations, Hodder Education, 802pp.
- WALKER M. 2005: Quaternary Dating Methods, Wiley, 286pp.
- BRADLEY R.S.2015: Paleoclimatology, Reconstructing Climates of Quaternary, Elsevier-Academic Press675pp
- BENNET M. & GLASSER N. 2009: Glacial geology, Ice sheets and landforms, Wiley-Blackwell, 385pp.
- BRODWKOWSKY K. & van LOON A.J.: Glacigenic sediments. Developments in sedimentology 49, 1991, 674 pp.
- EHLERS & GIBBARD: Quaternary glaciations extent and chronology. Part I: Europe. Elsevier, 2004, 475 pp.
- LOWE J.J. & WALKER M.J.C.: Reconstructing Quaternary environments. Prentice Hall, 2nd edition, 1997, 446 pp.
- WILLIAMS M et al.: Quaternary environments. Arnold, 2nd edition, 2003, 329 pp.

Geomorfologija

- ANDERSON, R.S. & ANDERSON S.P.2010: Geomorphology The mechanics and Chemistry of landscape. - Cambridge,637 pp.
- SUMMERFIELD, M.A. 1991: Global Geomorphology. - Longman, 537 pp
- LEOPOLD L.B., WOLMAN G.M. & MILLER J.P. 1995: Fluvial processes in geomorphology. - Dover, 522 pp.
- SZABO J., DAVID L. & LOCZY. 2010: Anthropogenic geomorphology: A guide to man-made landforms. – Springer. 298 pp.
- BURBANK, D.W. & ANDERSON R.P. 2001: Tectonic geomorphology. – Blackwell Science, 274 pp.
- SMITH, M.J., PARON, P. & GRIFFITHS, S. 2011: Geomorphological mapping, methods and applications. – Elsevier. 612 pp.
- McKean, J., Roering, J. (2004). Objective landslide detection and surface morphology mapping using high-resolution airborne laser altimetry. *Geomorphology*, 57(3-4), 331–351.
- JABOYEDOFF, M., OPPIKOFER, T., ABELLÁN, A., DERRON, M.-H., LOYE,
- A., METZGER, R., PEDRAZZINI, A. (2012). Use of LiDAR in Landslide Investigations: A Review. *Natural Hazards*, 61(1), 5–28.
- GLENN, N. F., STREUTKER, D. R., CHADWICK, D. J., THACKRAY, G. D., DORSCH, S. J. (2006). Analysis of LiDAR-derived topographic information for characterizing and differentiating landslide morphology and activity. *Geomorphology*, 73(1-2), 131–148.
- GROHMANN, C. H., SMITH, M. J., RICCOMINI, C. (2011). Multiscale Analysis of Topographic Surface Roughness in the Midland Valley, Scotland. *IEEE Transactions on Geoscience and Remote Sensing*, 49(4), 1200–1213.

Stratigrafija

- Pleničar M., Ogorelec B., Novak M. (ur): Geologija Slovenije. Ljubljana: Geološki zavod Slovenije, 2009, 612pp.
- Buser, S. 1989: Developement of the Dinaric and the Julian Carbonate Platforms and of the intermediate Slovenian Basin (NW Yugoslavia).- Memorie della Societa` Geologica Italiana, 40, 313–320
- Turnšek, D. 1997: Mezosoic Corals of Slovenia. - Založba ZRC, 512 pp., Ljubljana.
- Šmuc, A. 2005: Jurassic and Cretaceous stratigraphy and sedimentary evolution of the Julian Alps, NW Slovenia.- Založba ZRC/ZRC Publishing, pp. 98, Ljubljana.
- Jurkovšek, B., Cvetko Tešović, B. & T. Kolar-Jurkovšek, 2013: Geologija Krasa – geology of the Karst.- Geološki zavod Slovenije, pp.205, Ljubljana.
- Tolmači h geološkim kartam: vsi listi Osnovne geološke karte, novejše detailnejše karte Krasa (Jurkovšek et al., 1996; Jurkovšek, 2013), Idrije (Čar, 2010), Železnikov (Demšar, 2016), Krške kotline (Poljak, 2017).
- Torsvik, T. H., Cocks, L. R. M. 2017. Earth history and palaeogeography. Cambridge University Press, pp. 324, Cambridge.
- Wicander R. & Monroe J.S.: Historical Geology. Brooks/Cole, 2010, 444pp.,

Stratigrafska orodja

- Blatt, H., Berry, W.B.N. & Brande, S.: Principles of stratigraphic analysis. Blackwell Sci. Publ., 512 pp., 1991
- Brookfield, M.E.: Principles of Stratigraphy. Blackwell Publ., 340pp., 2004,
- Doyle, P. & Bennett, M.R.: Unlocking the stratigraphical record. Advances in modern stratigraphy. J. Wiley & Sons, 1998, 532 pp
- Doyle, P., Bennett, M.R. & Baxter. A.N.: The Key to the Earth History: an Introduction to Stratigraphy. John Wiley & Sons, 293pp., 2001,
- Levin H.: The Earth Through Time. John Wiley & Sons, 2010, 562pp.,
- Nichols G.: Sedimentology and Stratigraphy. Wiley-Blackwell, 419pp.,
- Prothero, D.R.: Interpreting the stratigraphic record. W.H. Freeman & Co., 1990, 410 pp.,
- Stanley, S.M.: Earth system evolution. W.H. Freeman & Co., 2005, 567 pp.,
- Wicander R. & Monroe J.S.: Historical Geology. Brooks/Cole, 2010, 444pp.,

Strukturna geologija

- FOSSEN, 2010: Structural geology. Cambridge University Press.
- Rowland, Duebendorfer & Schiebelbein, 2007: Structural analysis and synthesis, 3rd ed. - Blackwell Publishing.
- LISLE & LEYSHON, 2004: Stereographic projection techniques for geologists and civil engineers, 2nd ed. Cambridge University Press.
- VRABEC, 2017: Študijska gradiva za predmet Strukturna geologija in tektonika (prosojnice s predavanj in vaj). Univerza v Ljubljani, Naravoslovnotehniška fakulteta.

2. Letnik - izbirni predmeti

Fizikalna kemija

- W. J. MOORE, 1972, Physical Chemistry, Prentice-Hall, New Jersey, str. 1-570.
- P. W. ATKINS, 1998. Physical Chemistry, Oxford University Press, Oxford., , s 981, od str. 1-243.

Geodezija

- VULIĆ, Milivoj, Metoda najmanjših kvadratov, 1.izd., Ljubljana: Naravoslovnotehniška fakulteta, Oddelek za geotehnologijo in rudarstvo, 2007,
- Charles D. GHILANI, Paul R. WOLF, Elementary Surveying: An Introduction to Geomatics, 13th Edition..

Inženirska geologija pri posegih v prostor

- CORNFORTH, D.H.: Landslides in Practice, John Wiley&Sons, 2005.
- KLICHE, C.A.: Rock Slope Stability,Society for Mining, Metallurgy and Exploration, 1999.
- RIBIČIČ, M., 2002: Skripta Inženirska geologija II, Naravoslovnotehniška fakulteta, 64, Ljubljana.
- BRADY, B.H.G.: Rock Mechanics, Kluwer Academic Publisher, 2004.

Matematika 2

- DEMMEL, James W., Uporabna numerična linearna algebra, Ljubljana: DMFA - založništvo, 2000.
- MIZORI-OBLAK, Pavlina, Matematika za študente tehnike in naravoslovja. Del 1, Ljubljana : Fakulteta za strojništvo, 2001.
- AMNIK, Rajko, Matematika, Ljubljana: DMFA, 1994.
- GRASSELLI, Jože, Linearna algebra. Linearno programiranje., Ljubljana: DMFA - založništvo, 2003.
- DATTA, Biswa Nath, Numerical linear algebra and applications, International Thomson Publ., 1994.
- LIPSCHUTZ, Seymour, 3000 solved problems in linear algebra, McGraw-Hill, 1989 (Schaum's solved problems series).

Morska geokemija 1

- CHESTER, R., 2003: Marine Geochemistry. Blackwell Publishing, 506 p.
- SHULZ, H.D. & ZABEL, M. (eds.), 2006: Marine Geochemistry. Springer, 574 p.
- PRAGER, E.J. & EARLE S.A., 2000: The oceans. McGraw-Hill, 307 p.

Osnove mikroskopije rud

- INESON, P. R. Introduction to practical ore microscopy. Routledge, 2014.
- CRAIG, J. R., VAUGHAN, D. J., HAGNI, R. D. Ore microscopy and ore petrography. New York: Wiley, 1981.
- PRACEJUS, B. The ore minerals under the microscope: an optical guide. Elsevier, 2015.
- DROVENIK, M. Mikroskopija rud. Univerza v Ljubljani, Fakulteta za naravoslovje in tehnologijo, Ljubljana, 197 str., 1978.
- DOLENEC, T., DOLENEC, M. Mikroskopija rud (prosojnica) : študijsko gradivo. Ljubljana: NTF, Oddelek za geologijo, 66 str., 2007.

Osnove seismologije

- GOSAR, A. 2011: Osnove seismologije. Skripta NTF, 70 str.
- FOWLER, C.M.R. 2005: The solid earth. An introduction to global geophysics. Cambridge University Press, 2nd ed., 685 pp.
- STEIN, S., WYSESSON, M. 2003: An introduction to seismology, earthquakes, and earth structure. Blackwell, 498 pp.
- DOYLE, H. 1995: Seismology. John Wiley & Sons, 218 pp.
- YEATS, R.S., SIEH, K., ALLEN, C.R. 1997: The geology of earthquakes. Oxford university press, 568 pp.

Paleontologija vretenčarjev

- ANDERSON, J. S. & SUESS, H.-D. (eds.), 2007, Major Transitions in Vertebrate Evolution, Indiana University Press, 432 str.
- BENTON, J. M., 2004, Vertebrate Palaeontology, Wiley-Blackwell, 3rd ed., 472 str.
- CARROLL, R. L., 1988, Vertebrate paleontology and evolution, W. H. Freeman and Company, 698 str.
- SCHMID, E., 1972, Atlas of Animal Bones, Elsevier, 159 str.
- THOMASON, J. J. (ed.), 2008, Functional Morphology in Vertebrate Paleontology, Cambridge University Press, 296 str.

Recentna sedimentacijska okolja

- PERRY, C. & TAYLOR, K., 2007: Environmental Sedimentology, Blackwell Publishing, UK, 441 p.
- VAUGHAN, D. J. & WOGELIUS, R. A. (Eds.), 2000: Environmental mineralogy : Eötvös University Press, Budapest, 434 p.

Vulkanologija

- LOCKWOOD, J. P. & HAZLETT, 2010, Volcanoes, Global Perspectives.-Wiley-Blackwell, 541 pp.
- FISHER, R. V., HEIKEN, G. & HULEN, J. B., 1997; Volcanoes, Crucibles of Change.-Princeton University Press, 317 pp.

Zgodovina geologije

- ADAMS, F.D.: The birth and development of the geological science. Dover Publ., 1954, 506 p.
- ALBRITTON, C.C.: Catastrophic episodes in Earth history. Chapman & Hall, 1989, 221 p.
- HALLAM, A.: Great geological controversies. Oxford Uni. Press, 2nd edition, 1989, 244 p.
- HALLAM, A.: Revolutions in Earth History. Oxford Uni. Press, 1975, 127 p.
- LEGRAND, H.E.: Drifting continents and shifting theories. Cambridge Uni. Press, 1990, 313 p.

- RUDWICK, M.J.S.: *Bursting the limits of time. The reconstruction of geohistory in the age of revolution*. Uni. Chicago Press, 2005, 708 p.