


**Igneous and metamorphic petrology winter pdf**

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For a combined, one-semester, junior/senior-level course in Igneous and Metamorphic Petrology. Also useful for programs that teach Igneous Petrology and Metamorphic Petrology. Typical texts on igneous and metamorphic petrology are geared to either advanced or novice petrology students. This unique text offers comprehensive, up-to-date coverage of both igneous and metamorphic petrology in a single volume—and provides the quantitative and technical background required to critically evaluate igneous and metamorphic phenomena in a way that students at all levels can understand. The goal throughout is for students to be able to apply the techniques—and enjoy the insights of the results—rather than tinker with theory and develop everything from first principles. © 1996-2014, Amazon.com, Inc. or its affiliates Dexter Perkins, University of North Dakota (April 2022) 9840/29387 Folded Archean gneiss, Teton Range, Wyoming; photo is approximately 60 cm across Contributors This book was a team effort. In addition to the principal author, significant contributions came from Elizabeth Perkins, Rebecca May, Sarah Brandt, Morgan Rach, Paige Tibke, Douglas Perkins, and Kevin Henke. Scope of This Book Many excellent and comprehensive Petrology books are available in print today. They all contain about the same content. This book is somewhat different. For example, we have included more volcanology. Overall, we have focused on rocks – how they form, where they form, and what they look like. We have included less thermodynamics, geochemistry, and petrophysics than in some other books. Companion Book If you find this book of value, you may wish to check out the companion Open Mineralogy text. Creative Commons This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. It is intended for educational purposes only. Classroom and class use do not require attribution. Copy what you wish for handouts, add our images and drawings to labs or lectures – do any of that without a worry. Read more about limits on use by clicking on the Creative Commons link in blue above. Photo and Graphic Credits The visuals, especially the photos, are one of the things that make this book what it is. As of March 2022, the book contains just about 1,000 figures. Most are full color photographs. Half the photos came from Wikimedia Commons or others websites where selfless individuals have made their material available under a Creative Commons license for educational purposes. Although we have put figure credits at the end of every chapter, a number of individuals deserve special recognition for all the terrific photos they have shared. A large number of rock photos came from James St. John and Siim Sepp. Many thin-section photos came from Alessandro Da Mommio and Frank Mazdab. Two or more images of various sorts came from: Woudloper, Chmee2, Kurt Hollocher, Arlette, Brocken Inaglori, Kurt Hollacher, Marli Miller, Mx Granger, Robert M. Lavinsky, alavignenet, Amcyrus, B. Domangue, C.E. Jones, Daniel Mayer, Didier Descouens, Ethan Baxter, Graeme Churchard, Kent G. Budge, Lysippos, Madereugeneandrew, Michael C. Rygel, Quentin Scouflaire, and Ra'ike. I am grateful to all these individual for sharing. Sources of Information Most of the content of this book can be found in any number of other textbooks. In particular, I consulted the following (listed from newest to oldest) as I was writing: Principles of Igneous and Metamorphic Petrology (Philpotts and Ague, 2022), An Introduction to Metamorphic Petrology (Yardley, 2021), Earth Materials (Perkins et al., 2019), Essentials of Igneous and Metamorphic Petrology (Frost and Frost, 2019), Mind over Magma: The Story of Igneous Petrology (Young, 2019), Principles of Igneous and Metamorphic Petrology (Winter, 2015), Volcanoes: Global Perspectives (Lockwood and Hazlett, 2010), Petrology: The Study of Igneous, Sedimentary, and Metamorphic Rocks (Raymond, 2007), Mineralogy (Perkins, 2011), Mineralogy and Optical Mineralogy (Dyar et al., 2008), Petrology (Blatt et al., 2005), Metamorphic Phase Equilibria and Pressure-Temperature-Time Paths (Spear, 1993), Using Geochemical Data-Evaluation, Presentation, Interpretations (Rollinson, 1993), Navigation and Web Browsers To aid navigation, this book contains a robust table of contents that will always be present on the right side of your screen. The pages also contain many internal links. With the exception of some links in the last chapter, all pages in this book open in the same window. This means you use your browser's back button/arrow to return you to where you started. But, different web browsers have different quirks. And many people have different default settings for their browsers. So, the bottom line is that you should try several browsers and use the one that works best for you. They will NOT be the same, and figure resolution and layout will vary depending on the browser used. Additionally, we warn that many tables will not render well on small screens, and not at all on cell phones. Printing and PDF Versions Many people have asked us to provide printable files or pdf versions of this book. This is not easily done because every chapter is a single web page. So there is no pagination. 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I found it very helpful and explained things in a way I understood. The writing style was pleasant (even witty at times) and not too dry as in most science textbooks. Mallory rated it really liked it Sep 08, 2012 Ms Hauhmar rated it did not like it Sep 29, 2019 Asis Kar rated it it was amazing Feb 12, 2017 Ana rated it it was amazing Feb 26, 2020 Tyler rated it it was amazing Jan 04, 2019 Mohammed rated it really liked it Feb 11, 2012 Mohammed rated it it was amazing Mar 21, 2016 Omer Kamaci rated it it was amazing Oct 03, 2012 MASTER A CUTTS rated it really liked it May 19, 2016 Robin rated it it was amazing Apr 24, 2016 Riddhi rated it it was amazing Mar 10, 2011 Alison Evans rated it really liked it Sep 26, 2019 Kanan Abbasov rated it it was amazing Jun 18, 2018 Sayan rated it really liked it Nov 22, 2013 Adam rated it liked it Feb 15, 2014 Kumar Ajit rated it really liked it Jan 28, 2014 Mike Parkes rated it really liked it Apr 03, 2020 Providing enough background to be rigorous, "without" being exhaustive, it gives readers good preparation in the techniques of modern petrology; a clear and organized review of the classification, textures, and approach to petrologic study; and then applies these concepts to the real occurrences of the rocks themselves. Requires only a working knowledge of algebra, and makes extensive use of spreadsheets. Includes an accompanying diskette of programs and data files. This book offers unique, comprehensive, up-to-date coverage of both igneous "and" metamorphic petrology "in a single volume" and provides the quantitative and technical background required to critically evaluate igneous and metamorphic phenomena. For anyone interested in petrology.



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