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Stress Field of the Earth's Crust **Pathology of the Mesothelium**

Stress Field of the Earth's Crust Nov 05 2022 Stress Field of the Earth's Crust is based on lecture notes prepared for a course offered to graduate students in the Earth sciences and engineering at University of Potsdam. In my opinion, it will undoubtedly also become a standard reference book on the desk of most scientists working with rocks, such as geophysicists, structural geologists, rock mechanics experts, as well as geotechnical and petroleum engineers. That is because this book is concerned with what is probably the most peculiar characteristic of rock – its initial stress condition. Rock is always under a natural state of stress, primarily a result of the gravitational and tectonic forces to which it is subjected. Crustal stresses can vary regionally and locally and can reach in places considerable magnitudes, leading to natural or man-made mechanical failure. Pre-existing stress distinguishes rock from most other materials and is at the core of the discipline

of “Rock Mechanics”, which has been developed over the last century. Knowledge of rock stress is fundamental to understanding faulting mechanisms and earthquake triggering, to designing stable underground caverns and productive oil fields, and to improving mining methods and geothermal energy extraction, among others. Several books have been written on the subject, but none has attempted to be as all-encompassing as the one by Zang and Stephansson.

Pathology of the Mesothelium Oct 04 2022 Many books have been written about the pathology of the major organs of the body such as the lungs, heart, gastrointestinal tract etc. Included in these are descriptions - often with a minor emphasis - of pathological conditions which affect their serosal surfaces. In this book I have endeavoured to reverse the process and treat the mesothelium as an organ in its own right, rather than being the "no man's land" between various major structures. A number of pathological conditions are common to the coverings of the three major body cavities - the pleura, pericardium and peritoneum - while some abnormalities are exclusive to one or other sites. I hope that the contents of this book cover a broad enough spectrum of mesothelial diseases to be of help to service pathologists, who are ever increasingly being asked to make diagnoses, particularly on small biopsies of pleural and peritoneal tissues. It is also my hope that the various aspects of the subject have been dealt with in sufficient depth to be of use to pathologists engaged in teaching and research, and to those whose interests lie in the structure and function of the mesothelium. There is still much to be learned in understanding the way the mesothelium behaves in the realm of both inflammatory response and tumour formation. If this book provides a stimulus to furthering research in these fields I feel it will have achieved its objective.

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