

# Course of Geothermics

**Prof. Magdala Tesauro**

## **Course Outline:**

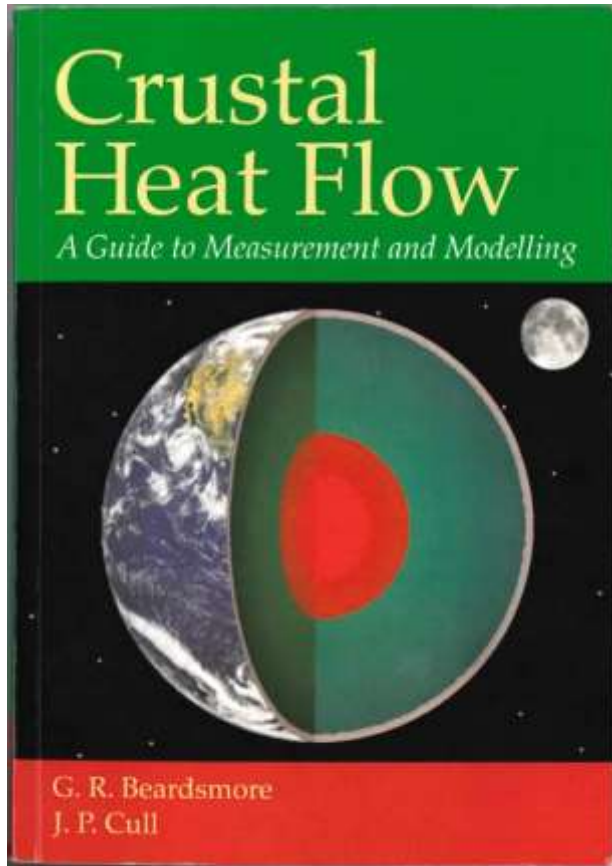
1. Thermal conditions of the early Earth and present-day Earth's structure
2. Thermal parameters of the rocks
3. Thermal structure of the lithospheric continental areas (steady state)
4. Thermal structure of the lithospheric oceanic areas
5. Thermal structure of the lithosphere for transient conditions in various tectonic settings
6. Heat balance of the Earth
7. Thermal structure of the sedimentary basins
8. Thermal maturity of sediments
9. Mantle convection and hot spots
10. Magmatic processes and volcanoes
11. Heat transfer in hydrogeological settings
12. Geothermal Systems



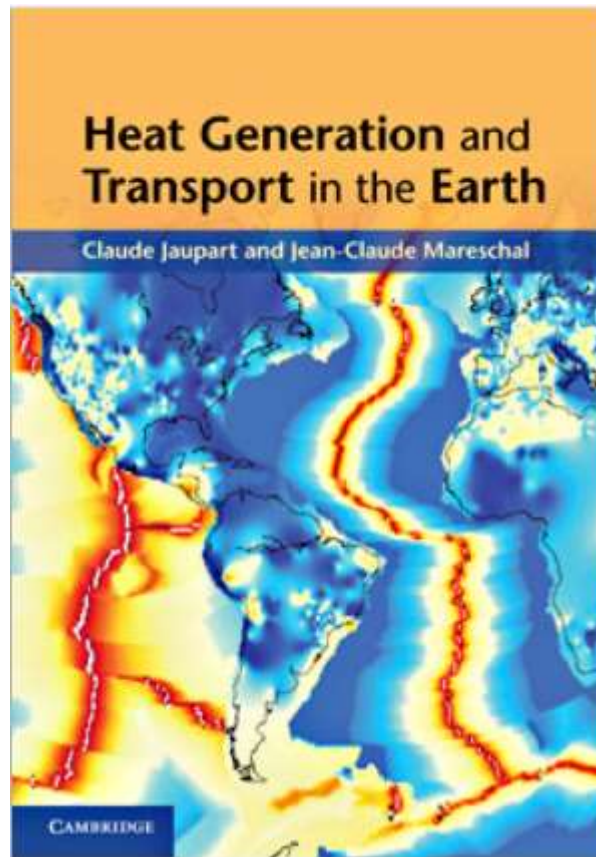
**UNIVERSITÀ  
DEGLI STUDI  
DI TRIESTE**

## Books suggested

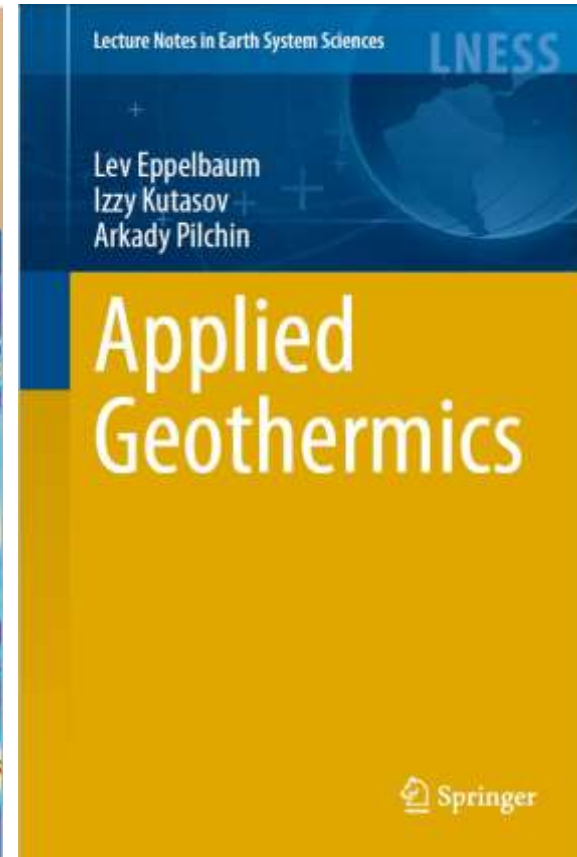
1



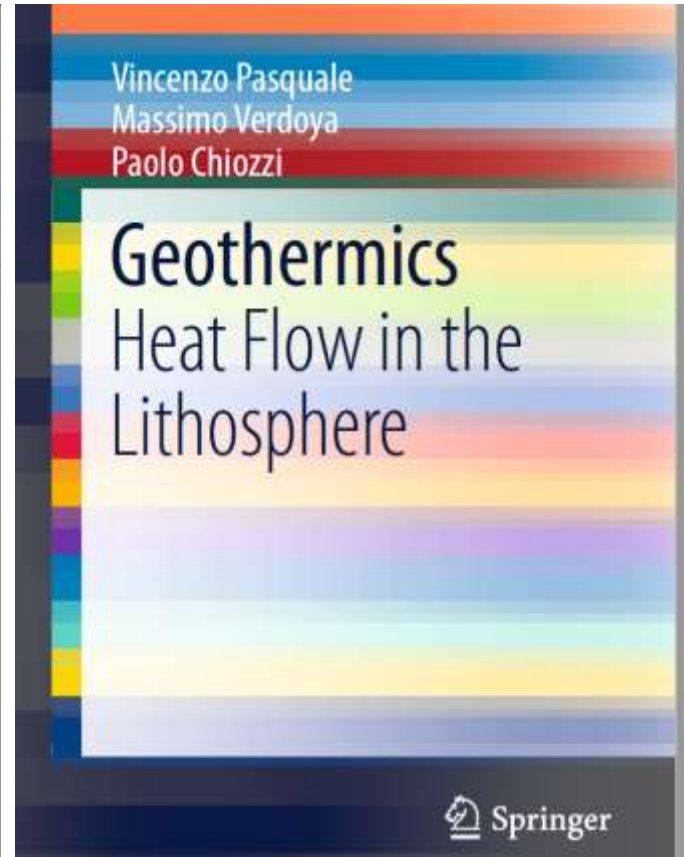
2



3



4





## How Should I Study???



- ✓ The contents of the lectures will be released on moodle platform (<https://moodle2.units.it/>) as slides, chapters of books, and articles at the end of each topic discussed during the course.
- ✓ The exam (oral) will consist of questions about all the topics presented in the course and comprehensive of a Power Point presentation illustrating a thematic research.



- ✓ Reading only the slides is not sufficient to pass the exam. You need to study using all the material released.
- ✓ The slides released are useful to review the lessons and find the topics discussed in books and articles suggested.
- ✓ Recording the lessons is allowed, but not recommended.
- ✓ You will save a lot of time paying attention to the lectures and taking notes instead of recording.



Good Luck!!!

