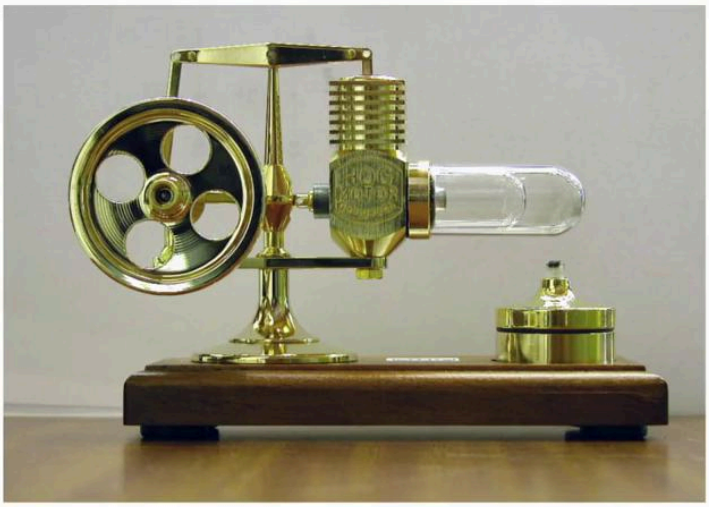
ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

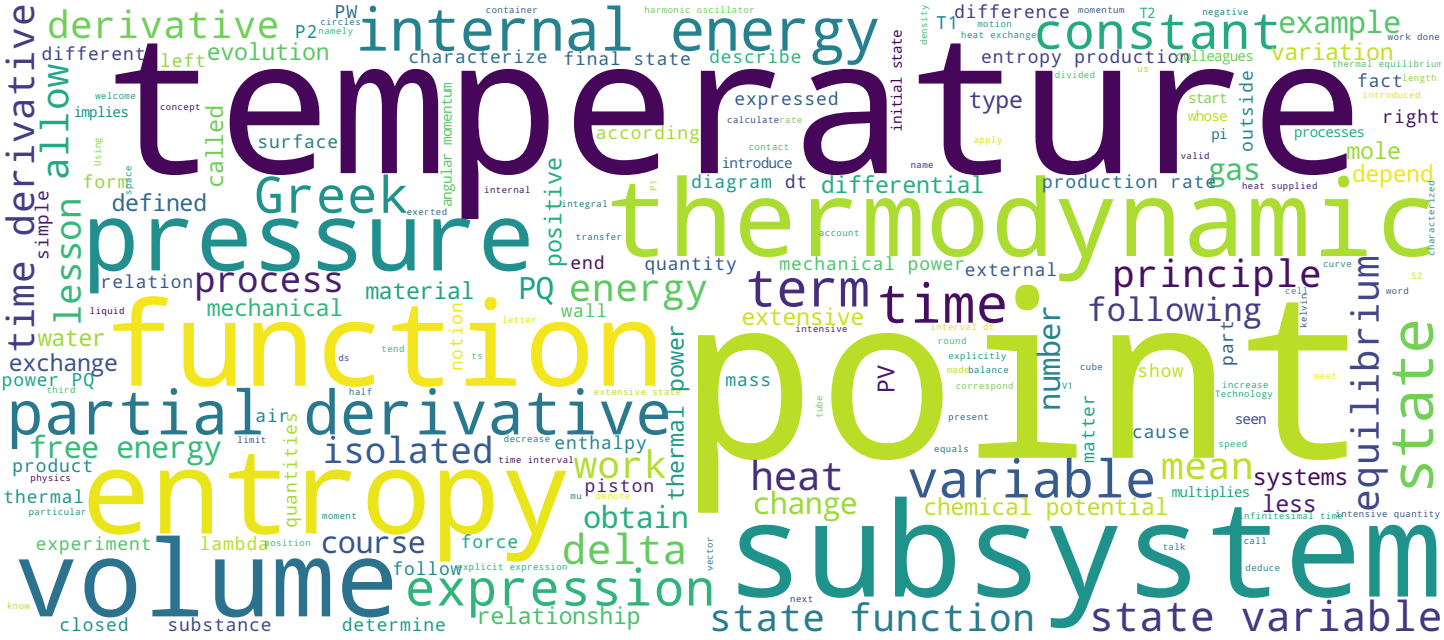
RESCIF
Réseau d'excellence des sciences de l'ingénieur de la Francophonie

Thermodynamique



ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

Prof. Jean-Philippe Ansermet



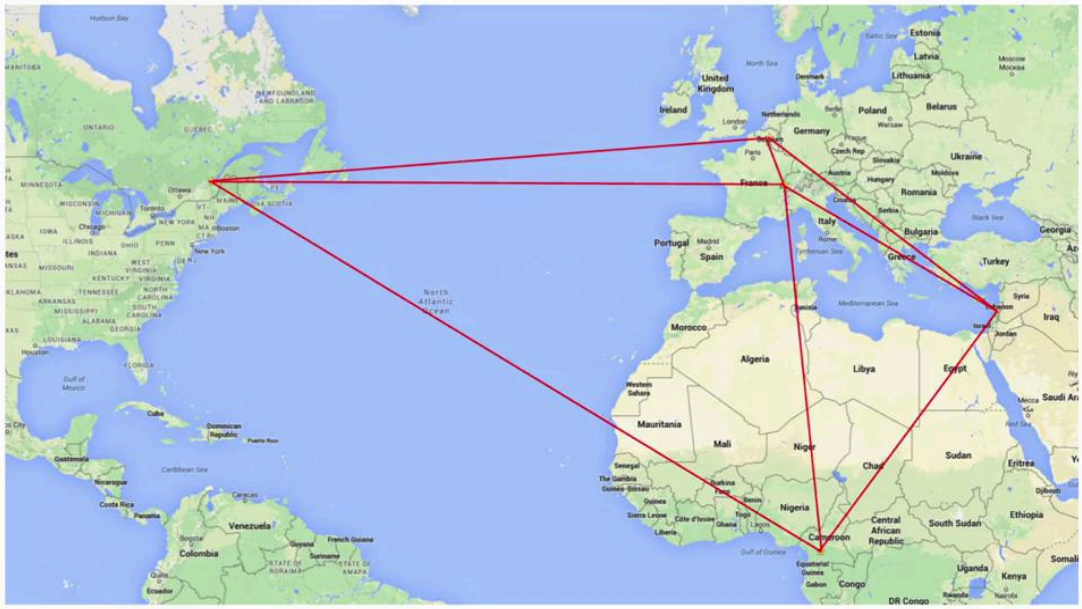
Video

Hello. Welcome to this thermodynamics course. My name is Jean-Philippe Ansermet, I am a physics teacher at the Swiss Federal Institute of Technology in Lausanne.

Notes

Summary

0m 04s



Thermodynamique

I have put together this course in collaboration with with colleagues from the Récif network of French-speaking universities.

Notes

Summary

0m 15s

Thermodynamics is part of the basic training of scientists and engineers because that it allows to describe any kind of domain.

Notes

Summary

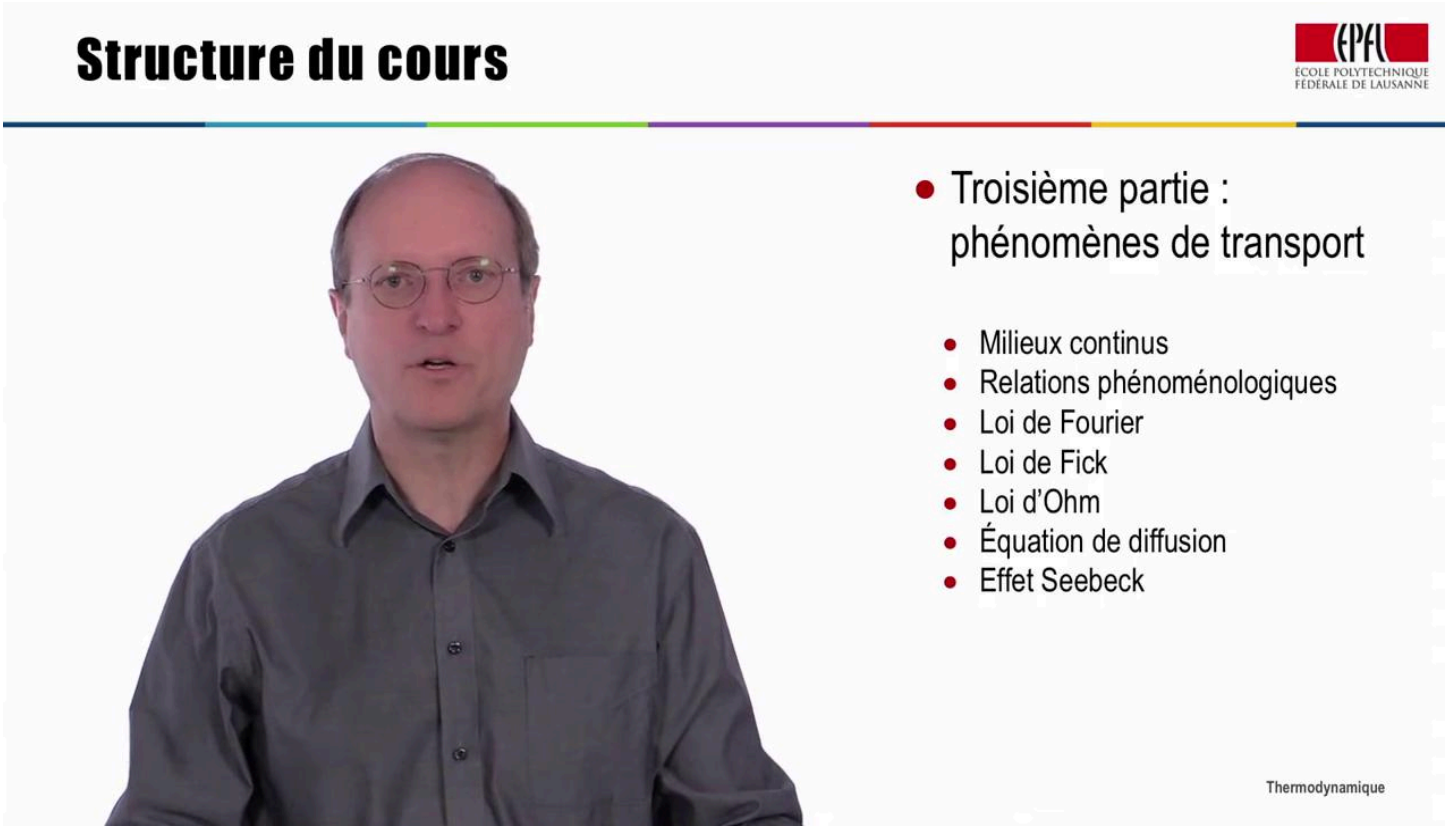
0m 23s

Of course, the management of our energy resources is a global issue and thermodynamics allows to make a quantitative analysis. But thermodynamics is also valuable because it allows to establish relationships between phenomena of different nature. Teachers will present the chapters in which they specialize. I will meet you at each lesson with videos of experiments illustrating the concepts they have introduced.

Notes

Summary

0m 32s



The course begins with four lessons. Which define the conceptual bases and the tools of thermodynamics. I then give the floor to a succession of colleagues who will show you how the thermodynamics applies to particular cases. The course ends with an introduction to the physics of continuous media. This allows for the presentation of transport phenomena in a unified framework. Einstein had expressed his admiration for thermodynamics. I would like you too you become fans of this often dreaded subject.

Notes

Summary

1m 02s