

3) Combustion Fundamentals with Elements of Chemical Thermodynamics

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Kurzbeschreibung:

- zur Vorlesung Combustion Technology
- aus dem **Inhalt:**
 - Stoichiometry;
 - Mass and Energy Balance;
 - Equilibrium Thermodynamics;
 - Chemical Equilibrium;
 - Elements of Chemical Kinetics;
 - Mechanisms of Basic Combustion Reactions;
 - Gaussian Elimination
- zahlreiche Beispielrechnungen
- in englischer Sprache

Aus dem Vorwort:

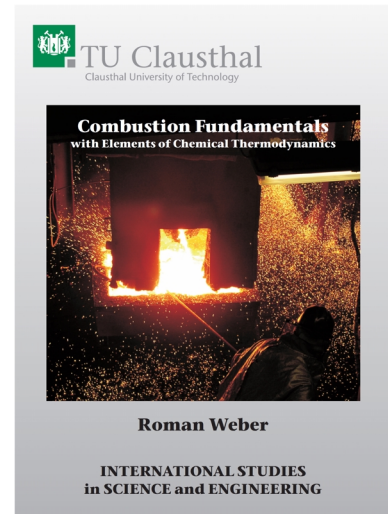
To the Student - How to get the most from these lecture notes

These lecture notes in "Combustion Fundamentals with Elements of Chemical Thermodynamics" have been prepared for undergraduate students attending a fifteen-week course (one semester) with 1.5 hour of lecture and 45 minutes of classes per week. This is a typical course at the Clausthal University of Technology.

If you are like most students just opening this textbook, you are enrolled on one of the few courses in science and engineering at Clausthal that are delivered in English. Probably English is not your native language but do not worry. This textbook has been written with you in mind in very simple and plain English. Below I provide you with few suggestions how "Combustion Fundamentals with Elements of Chemical Thermodynamics" can help you to succeed in this course.

Read before a lecture. - You will get the most out of your combustion course if you read each chapter before hearing it. In this way, many of the topics will already be clear in your mind and you will understand the lecture better.

Study Examples and Problems. - Each chapter contains several Examples. Study them carefully since they illustrate the subject of each particular chapter. [...]



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