

Master Physique fondamentale et applications

Physique-chimie, chimie physique - physics and chemistry

Informations

Composante : Faculté des Sciences

Langue(s) d'enseignement

Anglais

Contenu

Physics and chemistry are closely related fields that interplay in many situations and processes, and share notions from quantum mechanics to thermodynamics. Chemistry can modify physical properties like density or temperature. Conversely, Physics plays a leading role for determining chemical constants. In this unit, we will study various situations including atmospheric or interstellar chemistry, but also theoretical systems resulting from the coupling between reaction, diffusion, and convection, to highlight, for instance, the emergence of propagating chemical reaction fronts.

Bibliographie, lectures recommandées

Paul Arnaud, Cours de Chimie Physique, dunod

Pré-requis obligatoires

No minimal initial background in chemistry is needed. All the essential notions will be recalled, including equilibrium, chemistry of solutions, or kinetics.

VOLUME HORAIRE

- Volume total: 40 heures
- Cours magistraux: 20 heures
- Travaux dirigés: 20 heures

Codes Apogée

- SPFBU03C [ELP]

Pour plus d'informations

[Aller sur le site de l'offre de formation...](#)



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