

DIDIER BERNACHE-ASSOLLANT
MICHEL COURNIL

Équilibres en solution

Thermodynamique
et méthodes de calcul



Enseignement
de la
Chimie

MASSON



Equilibres En Solution Thermodynamique Et Methodes De Calcul

CH Cherryholmes



Equilibres En Solution Thermodynamique Et Methodes De Calcul:

Équilibres en solution Didier Bernache-Assollant, Michel Cournil, 1997-09-25 Ce manuel décrit de façon claire l'équilibre thermodynamique d'une solution aqueuse. Il permet ensuite de calculer rapidement la composition de la solution à l'équilibre en utilisant la méthode dite de la réaction prépondérante complétée par la notion d'espèces incompatibles et de systèmes équivalents. Cette démarche est à la fois rationnelle et très pédagogique car elle évite les hypothèses a priori que requièrent les autres méthodes. Les différents chapitres sont illustrés non seulement d'exemples numériques dans le fil du texte qui permettent de fixer les idées mais aussi d'exercices d'application en fin de chapitre.

Calcul sur ordinateur des équilibres liquide-vapeur et liquide-liquide Henri Renon, 1971 Thermodynamique Jean Vidal, 1997 La simulation des procédés et leur optimisation supposent que soient bien connues les propriétés thermodynamiques et les équilibres de phases des milieux traités. Cette connaissance repose encore sur les mesures expérimentales mais elle découle également de méthodes de calcul fondées sur les principes de la thermodynamique qui en contrôlent et assurent la cohérence et leur confèrent un vaste champ d'application. Cet ouvrage est pour l'essentiel consacré à la description de ces méthodes et de leur évolution. Il s'adresse à l'étudiant qui souhaite appliquer les principes généraux qui lui ont été enseignés et à l'ingénieur confronté au choix parfois délicat de la méthode la plus appropriée à la solution de son problème. Ce livre réserve une large place aux notions de base puis insiste particulièrement sur les modèles qui, bien que reposant sur une conception simplifiée de la matière à l'échelle moléculaire, présentent un caractère prédictif. Des exemples numériques précisent l'application de ces notions et de ces modèles. Une bibliographie très importante permet au lecteur de compléter les connaissances ainsi acquises. Ces modèles de calcul restent perfectibles. Les progrès venant ainsi de la thermodynamique appliquée au génie chimique, une discipline vivante, l'ingénieur doit se tenir informé de ces progrès et les valuer avec lucidité. Equilibrium Diagrams Robert Peter Frankenthal, Jerome Kruger, 1984

Thermodynamique et équilibres chimiques André Burneau, 1991-01-01 T00:00:00+01:00 Ouvrage d'initiation ce manuel introduit l'aide de notations, de conventions et d'un langage actualisés, une nouvelle approche de la thermodynamique chimique, description des états d'équilibre d'un corps pur et notion de fonctions caractéristiques, des états uniformes d'un système, évaluation d'un bilan chimique, l'aide de la variable d'avancement de réaction, équilibres chimiques et loi d'action des masses, l'activité relative des réactants tant définie pour les systèmes homogènes et hétérogènes qu'aux introductions des principes de la thermodynamique et des modèles utilisés pour étudier les transformations d'un système, calcul des fonctions thermodynamiques permettant de prévoir le sens d'évolution spontanée d'une réaction chimique et la composition du système à l'équilibre, réactions acido-basiques et d'oxydoréduction. Des annexes offrent au lecteur des compléments sur la structure de la matière, les indispensables notions mathématiques ou des aspects plus avancés de la thermodynamique. Cet ouvrage intéressera aussi bien les étudiants des premières années de l'enseignement supérieur que les élèves des classes préparatoires aux grandes écoles. De nombreux exemples, tableaux schémas et figures illustrent les concepts présentés dont les applications concrètes sont systématiquement traitées.

matiquement signal es Andr Burneau est professeur l Universit de Nancy I o il enseigne ce cours depuis plusieurs ann es

Equilibres chimiques Michel Soustelle, 2015-09-01 La s rie Thermodynamique chimique approfondie pr sente l ensemble des th mes de la thermodynamique utiles la chimie aux mat riaux l lectrochimie aux ph nom nes de surface et au g nie des proc d s Cet ouvrage est consacr l tude des quilibres chimiques Les conditions d volution des syst mes sont abord es travers la m thode de l affinit de De Donder Les modes de d placements et la stabilit sous l action de perturbations sont examin s ainsi que les lois des phases de Gibbs et de Duhem Les transformations az otropiques et la description des tats indiff rents compl tent cette tude Les m thodes de d termination exp rimentale et par le calcul des diff rentes grandeurs associ es aux r actions chimiques enthalpies entropies capacit s calorifiques enthalpies libres et constantes d quilibre conduisent aux calculs d quilibres complexes et leurs repr sentations graphiques sous diff rentes formes figure des p les diagrammes d Ellingham g n ralis s diagrammes binaires ternaires et quaternaires

Les Methodes De Calcul Sur Ordinateurs Appliquees Au Raffinage Et A La Anonyme, Proceedings of the Symposium Held on 8, 9, 10 September 1969 , 1969 **Raffinage du**

p trole (Le). Tome 2. Proc d s de s paration Jean-Pierre Wauquier, 2008-10-16 Thermodynamique et analyse des transferts de mati re sont les disciplines de base que doit ma triser l ing nieur pour appr hender les proc d s de s paration Ensuite la ma trise des proc d s implique un double choix technique distillation extractive extraction absorption percolation adsorption cristallisation et technologique m langeurs d canteurs colonnes de diff rents types centrifugeuses membranes Outre la description d taill e des processus conventionnels de s paration utilis s en raffinage ce tome r serve une place importante aux perspectives de d veloppement qu il s agisse du perfectionnement des techniques existantes ou de l introduction de nouvelles technologies ou de proc d s de s paration encore peu pratiqu s Table des mati res 1 Principes fondamentaux des op rations de s paration 2 Thermodynamique les quilibres entre phases 3 Transfert de mati re et efficacit des op rations de s paration 4 Distillation absorption et stripping 5 Distillation absorption et stripping dans l industrie p trol i re 6 Extraction liquide liquide 7 Extraction dans l industrie p trol i re 8 Cristallisation 9 Cristallisation dans l industrie p trol i re d paraffinage au solvant 10 Adsorption 11 Adsorption dans l industrie p trol i re 12 S paration par membranes

Bibliographie Index **Colles de Physique-Chimie - BCPST1** Damien Tocqueville, Jean-Xavier Bardaud, Alexandra d'Arco, L ea Dubois, Chlo e Galibert, 2025-10-07 Cet ouvrage s adresse aux tud iants de deuxi me ann e de CPGE BCPST Dans l objectif d une pr paration efficace aux interrogations orales ainsi qu aux preuves des concours les exercices de ce livre sont class s en trois cat gories Les exercices d application du cours souvent application quasiment directe du cours ils ont pour objectif de v rifier la connaissance et la compr hension des notions au programme des concours Les exercices d entra nement ces exercices issus pour la plupart d annales crites ou orales de concours permettent de s assurer que les m canismes de r solutions sont bien assimil s Les exercices d approfondissement ces probl mes am nent prendre du recul sur le sujet du chapitre Des exercices plus pouss s issus des concours les plus ambitieux ainsi que des questions ouvertes pos es aux

preuves orales sont proposées dans cette catégorie. Chaque exercice est entièrement corrigé parfois de plusieurs manières. Les capacités numériques du nouveau programme sont toutes détaillées dans cet ouvrage. L'ensemble permet de s'assurer d'avoir acquis les connaissances nécessaires la manipulation des concepts du programme de BCPST 1re année et approfondir le plus sereinement possible les preuves écrites et orales des concours.

Traité de chimie générale: Transformations de la matière et de l'énergie Walther Nernst, 1912

Chimie et industrie, 1971. Beginning with v 97 1967 issued with two numbers per month called Chimie industrielle and Chimie chimique

320 exercices corrigés de Physique - PTSI

Christophe Bernicot, Jean-Christophe Tisserand, 2025-07-08. Le livre est découpé en chapitres reprenant le programme officiel de PTSI. Chaque chapitre contient les quatre parties ci-dessous. Maîtriser le cours. Cette partie contient le Vrai/Faux du début d'un exercice de questions de cours qui permet de vérifier que les notions nécessaires la résolution des exercices sont correctement en place. Il est suivi d'exercices d'application directe du cours. Maîtriser les méthodes fondamentales. Une partie qui propose des exercices un peu plus exigeants mais proches de méthodes fondamentales qu'il faut connaître et maîtriser parfaitement. Pour aller plus loin avec des exercices plus laborieux et ardues ainsi que le QCM de fin qui nécessite d'avoir un bon recul sur les notions abordées. Solutions des exercices. Elles sont complètes et rédigées avec le plus grand soin. Elles contiennent également des rappels de cours, des conseils de méthode, des astuces ou encore des mises en garde contre les erreurs.

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CAPES externe 2000-2005 Agrégation de physique 2000-2005 Jacques Mesplède, 2005

Chimie & industrie, 1971-07

Nouvelles Recherches dans le Domaine des Composés Macromoléculaires Elena Ceausescu, 2013-09-11. Publisher's Note: The Publisher has received information from members of the Romanian academic community questioning the role of Elena Ceausescu as the editor on this book and as lead author on the contributed chapters claiming that she did not in fact edit the work and should not have been listed as an author of the contributed chapters. This work is translated into French from *Noi Cercetări în Domeniul Compusilor Macromoleculari* published by Editura Academiei Republicii Socialiste România Bucharest 1981. The Publisher is posting this note to make

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