

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

G Thomas



Équilibres En Solution Thermodynamique Et Mathodes 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 mélanges 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 couvrent 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 tout particulièrement sur les modèles qui bien que reposant sur une conception simplifiée de la matière 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 viennent ainsi de la thermodynamique appliquée au génie chimique, une discipline vivante à 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, aide à l'introduction 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 signalés André Burneau est professeur à l'Université de Nancy I où il enseigne ce cours depuis plusieurs années

Equilibres chimiques Michel Soustelle, 2015-09-01 La série Thermodynamique chimique approfondie présente l'ensemble des thèmes de la thermodynamique utiles à la chimie aux matériaux à l'électrochimie aux phénomènes de surface et au génie des procédés Cet ouvrage est consacré à l'étude des équilibres chimiques Les conditions d'évolution des systèmes sont abordées à travers la méthode de l'affinité de De Donder Les modes de déplacements et la stabilité sous l'action de perturbations sont examinés ainsi que les lois des phases de Gibbs et de Duhem Les transformations azéotropiques et la description des états indifférents complètent cette étude Les méthodes de détermination expérimentale et par le calcul des différentes grandeurs associées aux réactions chimiques enthalpies entropies capacités calorifiques enthalpies libres et constantes d'équilibre conduisent aux calculs d'équilibres complexes et leurs représentations graphiques sous différentes formes figure des polyèdres diagrammes d'Ellingham généralisés diagrammes binaires ternaires et quaternaires

Les Méthodes De Calcul Sur Ordinateurs Appliquées Au Raffinage Et A La Anonyme, *Thermodynamique des procédés 2* Salah Belaadi, 2019-09-01 Thermodynamique des procédés 2 est consacré à l'étude des équilibres entre phases dans le cas des quatre changements d'état physique fusion ébullition ou vaporisation sublimation et allotropie ou transition Il comprend également une partie énergétique dans ses aspects exergie et cycles thermiques Ce second volume présente des exemples scientifiques et techniques aussi bien théoriques qu'industriels qui sont le fruit d'une sélection minutieuse réalisée sur plus de trois décennies d'enseignement en thermodynamique et de collaboration avec le secteur de l'industrie Les exercices didactiques et les problèmes pratiques sont entièrement dédiés à la compréhension de cette science et aux applications potentielles pour le monde industriel Cet ouvrage constitue un outil de travail et de réflexion indispensable aussi bien à l'étudiant en formation qu'à l'ingénieur ou au chercheur expérimental

Proceedings of the Symposium Held on 8, 9, 10 September 1969, 1969 *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 Romania Bucharest 1981 The Publisher is posting this note to make readers aware of the concern that has been raised

Raffinage du pétrole (Le). Tome 2. Procédés de séparation Jean-Pierre Wauquier, 2008-10-16 Thermodynamique et analyse des transferts de matière sont les disciplines de base que doit maîtriser l'ingénieur pour appréhender les procédés de séparation Ensuite la maîtrise des procédés implique un double choix technique distillation extractive extraction absorption percolation adsorption cristallisation et technologique manèges de vases colonnes de différents types centrifugeuses membranes Outre la description détaillée des processus conventionnels de séparation utilisés en raffinage ce tome réserve une place importante aux perspectives de

veloppement qu'il s'agisse du perfectionnement des techniques existantes ou de l'introduction de nouvelles technologies ou de procédés de séparation encore peu pratiqués

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Bibliographie Index Proceedings, 1971

Traité de chimie générale: Transformations de la matière et de l'énergie Walther Nernst, 1912 **320 exercices corrigés de Physique - PTSI** Christophe Bernicot, Jean-Christophe Tisserand, 2025-07-08

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330 exercices corrigés de Physique - MPSI Christophe Bernicot, Jean-Christophe Tisserand, 2025-07-08

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Traité de chimie générale Walther Nernst, 1911

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

Chimie des solutions Marc Blétry, Marc Presset, 2019-02-18

Cet ouvrage présente les techniques de détermination des équilibres de manière unifiée des approximations usuelles jusqu'au calcul numérique en introduisant les méthodes de mathématiques appliquées nécessaires. La détermination des équilibres en solution est essentielle tout travail en chimie depuis la chimie analytique jusqu'à la géochimie en passant par l'industrie chimique, les problèmes de corrosion, etc. Cet ouvrage présente les techniques de détermination des équilibres de manière unifiée depuis les approximations usuelles jusqu'à la méthode des réactions pr

pondrantes jusqu'au calcul numrique en introduisant les mthodes de mathmatiques appliques ncessaires ainsi que leur mise en uvre Un grand nombre d'exercices sont proposs en fin de chapitre *Thermodynamique PC-PSI*, *Chimie & industrie*, 1971-07

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