



TP

Caractéristique d'une cellule photovoltaïque - Association

« Dans un premier temps, nous tracerons et commenterons les caractéristiques $I = f(U)$ et $P = f(U)$ d'une cellule photovoltaïque (notée en abrégé "PV"). Nous étudierons ensuite les associations série et parallèle de cellules afin d'augmenter la puissance disponible.

« On utilisera un tableur pour calculer automatiquement le courant I ainsi que les puissances mises en jeu. Un fichier OpenCalc est disponible avec les points de mesures à effectuer et le tracer automatique des courbes.

1. Relevé de la caractéristique d'une cellule PV.

1.1 Montage



« Pour relever la caractéristique $I = f(U)$, on utilisera pas le montage classique :

« On utilisera un voltmètre et la loi d'Ohm pour calculer le courant I .

1.2. Mesures

« Vous releverez la caractéristique $U = f(R_x)$ dans deux conditions d'éclairement différents.

Attention : La lampe halogène sera placée à 7cm au-dessus de la boîte à cellules et l'ensemble "halogène-boîtier plastique" devra pas être bougé durant toute la phase de mesure.

- Faire des mesures en faisant varier R_x de 50 MΩ à 100 Ω, et relever les valeurs de U .
- Le calcul du courant est automatiquement fait par le tableur.
- Quel paramètre de la caractéristique $I = f(U)$ de la cellule s'éclairément fait-il varier ?
- Dans les conditions d'éclairement maximum, à l'aide de la courbe $P = f(U)$ quelle est la puissance maximum délivrée ?
- Donner les coordonnées (U, I, P) ainsi qu'un nom à ce point particulier où cette puissance est maximale.
- D'après le domaine de variation autour de ce point, la cellule se comporte-t-elle comme un générateur de courant ou de tension ?

2. Association de cellules : module solaire

« On veut augmenter la puissance disponible du générateur. Pour cela on réalise une association de plusieurs cellules nommé "module". Dans toute la suite du TP, on se placera dans les conditions d'éclairement maximum.

2.1. Association série

- Lorsque des générateurs sont associés en série, quelle est la grandeur électrique commune ?
- Quelle grandeur électrique augmente-t-on en associant des générateurs en série ?

2.1.1. Mesures

Réaliser l'association en série des deux cellules et relever les mêmes mesures qu'à la question (c) du paragraphe 1.2

« On définit le courant électrique commun circulant dans les deux cellules en série

Methodes Physiques Appliquees A La Chimie

S Marginson



Methodes Physiques Appliquees A La Chimi:

... *Les méthodes physiques appliquées à la chimie* Paul Job, 1925 Journal of the American Chemical Society American Chemical Society, 1926 Proceedings of the Society are included in v 1 59 1879 1937 Van Nostrand's Chemical Annual John Charles Olsen, Alfred Melhado, 1926 The issues for 1907 and 1909 contain a Review of chemical literature *Journal of the Chemical Society* Chemical Society (Great Britain), 1925 Titles of chemical papers in British and foreign journals included in Quarterly journal v 1 12 **Silver Azide, Cyanide, Cyanamides, Cyanate, Selenocyanate and Thiocyanate** Mark Salomon, M. Salomon, H. Ohtaki, 2013-09-03 Silver Azide Cyanide Cyanamides Cyanate Selenocyanate and Thiocyanate Solubilities of Solids is a comprehensive critical compilation of solubility data for solids in silver azide cyanide cyanamides cyanate selenocyanate and thiocyanate Quantities used as measures of solubility are mole fraction mass fraction solute mole mass fraction molality concentration density and relative density This volume is comprised of eight chapters and initially presents an outline of the principal thermodynamic relations encountered in discussions of solubility including activity coefficients for mixtures and solutions The solubility formation constants for solvents are calculated The data for each system are evaluated and where data from different sources agree sufficiently recommended values are proposed The evaluation sheets recommended values and compiled data sheets are presented This monograph also describes the aqueous systems for silver azide silver cyanamide silver dicyanamide methyl tricyanamide argentate silver cyanate silver cyanide silver selenocyanate and silver thiocyanate This monograph will be of value to chemists Technical Book Review Index , 1926

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