

Résolution numérique de l'équation de Laplace

Les équations de Maxwell permettent de montrer que, en régime stationnaire et dans le vide, le potentiel électrostatique V vérifie l'équation de Laplace, c'est-à-dire

$$\Delta V = 0$$

où Δ est l'opérateur laplacien scalaire.

Cette équation se retrouve dans de nombreux domaines : la température de tout système vérifie $\Delta T = 0$ en régime permanent et sans source de production, mais on la rencontre également en gravitation avec le potentiel associé au champ gravitationnel, en mécanique des fluides, pour le potentiel des vitesses, en mécanique quantique, etc.

Des solutions analytiques existent dans des cas simples, mais dans le cas général, résoudre cette équation demande d'avoir recours à des méthodes numériques : c'est le but du travail suit.

Nous nous limiterons à deux dimensions, ce qui revient physiquement à supposer une invariance par translation dans la troisième dimension.

Vous disposez du script Python `Eq_laplace_script-depart.py`, qui contient quelques fonctions qui nous serviront à l'initialisation des calculs et à l'affichage des résultats.

Ouvrir ce fichier et l'enregistrer sous un nom différent et dans vos documents.

1 - Principe de la résolution par méthode de relaxation

1 -.1 Schéma général

Il est évidemment impossible de résoudre numériquement l'équation de Laplace en tout point de l'espace : on se restreint à un domaine D fini, discrétisé sous forme d'une grille de dimensions $N_x \times N_y$.

On peut démontrer mathématiquement que l'équation de Laplace admet une unique solution dans un domaine fermé D si la valeur de V est fixée sur les bords B du domaine (on parle en mathématiques de « problème de Dirichlet »).

Dans notre cas, les bords correspondent au contour de la grille, mais peuvent aussi inclure d'autres points à l'intérieur de celle-ci sur lesquels le potentiel serait imposé, par exemple les armatures d'un condensateur.

Les conditions aux limites étant fixées, on utilise ensuite une méthode de résolution par différences finies.

L'idée est exactement la même que pour résoudre une équation différentielle par la méthode d'Euler : les dérivées spatiales du potentiel sont approximées par des différences entre les valeurs du potentiel entre deux points voisins de la grille.

La nouveauté par rapport à la méthode d'Euler est la résolution itérative : partant d'une « condition initiale » arbitraire (valeur de V fixée arbitrairement et « aléatoirement » en tout point de la grille), on améliore par récurrence la précision du résultat pour qu'il soit conforme à l'équation de Laplace.

1 -.2 Discrétisation de l'équation de Laplace

On rappelle qu'on se place sur une grille à deux dimensions de taille $N_x \times N_y$, schématisée figure 1. Le pas spatial de la grille est noté δ , si bien que le point (i, j) de la grille a pour coordonnées $(x_i, y_j) = (i\delta, j\delta)$. Les indices sont donc écrits dans tout ce travail dans une convention de

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