

MATHÉMATIQUES à l'Université

Cours et exercices corrigés

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Méthodes d'approximation Équations différentielles Applications Scilab

► *niveau L3*

Sylvie Guerre-Delabrière
Marie Postel



Methodes Dapproximation Aquations Diffentielles Applications Scilab Niveau L3

**Jean-Antoine-Nicolas de Caritat
marquis de Condorcet**



Methodes D'approximation Equations Differentielles Applications Scilab Niveau L3:

Méthodes D'approximation, Équations Différentielles, Applications Scilab Sylvie Guerre-Delabrière, 2004

Modeling and Simulation in Scilab/Scicos with ScicosLab 4.4 Stephen L. Campbell, Jean-Philippe

Chancelier, Ramine Nikoukhah, 2009-12-21 Scilab and its Scicos block diagram graphical editor with a special emphasis on modeling and simulation tools The first part is a detailed Scilab tutorial and the second is dedicated to modeling and simulation of dynamical systems in Scicos The concepts are illustrated through numerous examples and all code used in the book is available to the reader [Introduction à SCILAB](#) J.-P. Chancelier, F. Delebecque, C. Gomez, M. Goursat, R.

Nikoukhah, S. Steer, 2007-07-03 Le but de ce livre est de montrer au lecteur comment utiliser l'essentiel des fonctionnalités de SCILAB en passant en revue la plupart des fonctions de base illustrées par des exemples **Méthodes d'approximation,**

équations différentielles, applications Scilab Sylvie Guerre-Delabrière, Marie Postel, 2004 Les méthodes d'approximation des fonctions des intégrales des solutions d'équations et des solutions des équations différentielles qui constituent le sujet de ce livre forment un ensemble de techniques indispensables en mathématiques appliquées et tout particulièrement en calcul scientifique Cet ouvrage présente des méthodes de base avec une approche pédagogique progressive Les démonstrations mathématiques détaillées sont accompagnées d'algorithmes numériques Pour chaque chapitre on propose des exercices comprenant des applications réalisées avec le logiciel de calcul numérique Scilab développé et distribué gratuitement par l'INRIA Ce livre correspond un cours enseigné actuellement en Licence à l'Université Pierre et Marie Curie qui fera l'objet dès la rentrée 2004 d'un cours de Licence au niveau 3 dans le nouveau cursus européen Licence Master Doctorat dit LMD Il est destiné des étudiants souhaitant poursuivre dans un Master de Mathématiques ou qui après leur diplôme de Licence de Mathématiques se dirigeront vers le monde professionnel On peut également l'utiliser dans le cadre de la préparation orale de modélisation de l'agrégation et d'enseignements de première année decoles d'ingénieur **Méthodes numériques appliquées pour le scientifique et**

l'ingénieur Jean-Philippe Grivet, 2009 De nombreux problèmes physiques ne peuvent pas être résolus analytiquement et conduisent des calculs numériques L'objectif de l'ouvrage est de donner des méthodes concrètes permettant de transcrire ces problèmes dans des logiciels fonctionnant sur la majorité des ordinateurs utilisation quasi exclusive du logiciel gratuit Scilab mais aussi de Maple L'originalité des méthodes numériques appliquées pour le scientifique et l'ingénieur réside dans la pédagogie développée chaque thème est introduit par les bases de mathématiques strictement nécessaires avant d'aborder la partie proprement numérique puis de nombreux exercices d'application sont proposés dans une progression judicieuse Les problèmes usuels sont ainsi présentés interpolation résolution d'équations non linéaires dérivation et intégration numériques équations différentielles systèmes d'équations linéaires valeurs propres et vecteurs propres Mais d'autres chapitres sont plus originaux représentation graphique polynômes orthogonaux probabilités et erreurs calcul et approximation de fonction représentation de grandeurs physiques Le lecteur trouvera ici une variété d'exercices et de projets issus de la physique qui lui

permettront de s'approprier concrètement ces méthodes il utilisera cet ouvrage comme un recueil de recettes numériques pour les problèmes qu'il rencontre L'ouvrage est indispensable l'ingénieur et au scientifique confrontés des solutions numériques Il est accessible partir d'un niveau L3 M1 **Analyse numérique et équations différentielles - 4ème Ed** Jean-Pierre Demailly,2016-06-30T00:00:00+02:00 Cet ouvrage est la quatrième édition d'un livre devenu aujourd'hui un classique sur la théorie des équations différentielles ordinaires Cet ouvrage est la quatrième édition d'un livre devenu aujourd'hui un classique sur la théorie des équations différentielles ordinaires **Approximations et équations différentielles** Moïse Sibony,1982

Méthodes mathématiques et numériques pour les équations aux dérivées partielles Joël

CHASKALOVIC,2013-01-22 Qu'il s'agisse d'applications en physique ou en mécanique en médecine ou en biologie mais aussi en économie dans les médias et en marketing ou encore dans le domaine des finances la traduction phénoménologique du système étudié conduit très souvent la résolution d'équations différentielles ou aux dérivées partielles Incontestablement ce sont les éléments finis qui ont bouleversé le monde de l'approximation numérique des équations aux dérivées partielles Cet ouvrage est composé de deux parties la première est un abrégé de cours portant sur les outils de base de l'analyse mathématique des équations aux dérivées partielles et la seconde contient des problèmes corrigés qui abordent l'approximation par éléments finis des formulations variationnelles des problèmes aux limites elliptiques Des applications en mécanique des solides déformables la résistance des matériaux en mécanique des fluides et en thermique ainsi que quelques problèmes non linéaires y sont présentés Cet ouvrage s'adresse aux étudiants en sciences et techniques de l'ingénieur des universités et des grandes écoles

Méthodes numériques avancées sous Matlab® 2 Bouchaïb Radi,Abdelkhalak El Hami,2018-09-01 L'objectif de cet ouvrage est d'introduire et d'étudier les méthodes numériques de base et celles avancées pour pouvoir faire du calcul scientifique Ce dernier désigne la mise en œuvre des démarches adaptées au traitement d'un problème scientifique issu de la physique ou de l'ingénierie Méthodes numériques avancées sous Matlab 2 est constitué de deux parties La première présente la résolution des équations non linéaires et des équations différentielles La seconde traite des différences numériques utilisées pour la résolution des équations aux dérivées partielles Chaque chapitre débute par des rappels et des définitions illustrés par des exemples numériques variés et des représentations graphiques la fin de chaque chapitre on initie le lecteur aux différences commandes du logiciel Matlab relatif aux méthodes exposées Comme dans de nombreux domaines la pratique joue un rôle essentiel dans la compréhension et la maîtrise de ces méthodes **Approximations successives et équations**

différentielles Emile Clement Cotton,1928 **Calcul différentiel et équations différentielles** Dominique Azé,Guillaume Constans,Jean-Baptiste Hiriart-Urruty,2010-03-11 Le présent ouvrage s'adresse principalement aux étudiants du module d'enseignement intitulé Calcul différentiel Equations différentielles dispensés dans les formations de mathématiques au niveau L3 de la licence de mathématiques Il pourra également être utile aux élèves ingénieurs et aux étudiants préparant des masters ou des concours de recrutements Capes Agrégations Il s'agit d'un recueil de 36 devoirs au sens premier de ce vocable c'est-à-dire de

travaux effectués en temps limité ou chez soi seul ou plusieurs. La durée estimée moyenne est de 3 heures pour chaque devoir lequel comporte généralement deux ou trois exercices indépendants. La plupart des problèmes et exercices proposés sont originaux, ils ont été proposés durant les dernières années dans plusieurs universités sous forme d'examens intermédiaires ou terminaux en temps limité ou rendre rigoureux après y avoir travaillé chez soi. Les thèmes traités suivent grosso modo le déroulement d'un programme standard de module Calcul différentiel. Equations différentielles avec au fur et mesure qu'on avance un retour sur les chapitres passés, bref une progression en spirale plutôt que linéaire.

Méthodes numériques pour le calcul scientifique Alfio Maria Quarteroni, Riccardo Sacco, Fausto Saleri, 2000-05-01. Le livre a pour but de présenter les fondements théoriques et méthodologiques de l'analyse numérique. Une attention toute particulière est portée sur les concepts de stabilité, précision et complexité des algorithmes. Les méthodes modernes relatives aux thèmes suivants sont présentées et analysées en détail : résolution des systèmes linéaires et non linéaires, approximation polynomiale, optimisation numérique, polynômes orthogonaux, transformations rapides, équations différentielles ordinaires. Une caractéristique principale du livre réside dans l'abondance des programmes MATLAB qui illustrent les méthodes numériques proposées par des applications concrètes.

Analyse numérique. 2. Approximations et équations différentielles Moïse Sibony, 1982. [Des méthodes d'approximation pour les équations différentielles lorsqu'on connaît une première valeur approchée](#) Jean-Antoine-Nicolas de Caritat marquis de Condorcet, 1884.

Analyse numérique et équations différentielles Jean-Pierre Demailly, 2012-12-03. Cet ouvrage est un cours d'introduction à la théorie des équations différentielles ordinaires accompagné d'un exposé détaillé de différentes méthodes numériques permettant de les résoudre en pratique. La première partie présente quelques techniques importantes de l'analyse numérique : interpolation polynomiale, méthodes d'intégration numérique, méthodes itératives pour la résolution d'équations. Suit un exposé rigoureux des résultats de base sur l'existence, l'unicité et la régularité des solutions des équations différentielles incluant une étude détaillée des équations usuelles du premier et du second ordre des équations et systèmes différentiels linéaires de la stabilité des solutions et leur dépendance par rapport aux paramètres. Une place substantielle est accordée à la description des méthodes numériques un pas ou multi pas avec une étude comparative de la stabilité et du coût en temps de calcul. Agrément de nombreux exemples concrets, le texte propose des exercices et des problèmes d'application à la fin de chaque chapitre. Cette troisième édition a été enrichie de nouveaux exemples et exercices et de compléments théoriques et pratiques : comportement des suites itératives, théorie des fonctions implicites et ses conséquences géométriques, critère de maximalité des solutions d'équations différentielles, calcul des géodésiques d'une surface, champs de vecteurs. Cet ouvrage est surtout destiné aux étudiants licence L3, masters scientifiques, écoles d'ingénieurs, agrégats de mathématiques. Les enseignants professionnels, physiciens, médecins l'utiliseront comme outil de base.

Analyse numérique des équations différentielles Michel Crouzeix, Alain L. Mignot, 1984. **Calcul scientifique** Florence Hubert, John Hamal Hubbard, 2006.

Analyse asymptotique et couche limite Jean Cousteix, Jacques Mauss, 2006-09-08. Le but du livre est de donner aux

enseignants et aux étudiants partir de Bac 4 en mathématiques appliquées et en mécanique des fluides un outil d'enseignement et d'apprentissage illustré par cinquante problèmes accompagnés de leur correction détaillée. Il présente une nouvelle méthode d'analyse asymptotique pour des problèmes de couche limite. Celle-ci est appelée MASC. Méthode des Approximations Successives Complémentaires. **Résolution pratique des équations différentielles** Jean Legras, 1954

Approximation d'équations paraboliques par des méthodes multiples à pas variables Marie-Noëlle Le Roux, 1979
Approximation des équations différentielles par des méthodes multiples pas variable
Approximation des équations paraboliques par des méthodes multiples lorsque la condition initiale n'est pas régulière
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