

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

Emile Cotton



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 en 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 de cycles d'ingénieur **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 différentielles numériques utilisées pour la résolution des équations aux dérivées partielles Chaque chapitre débute par des rappels et des définitions illustrées par des exemples numériques variés et des représentations graphiques la fin de chaque chapitre on initie le lecteur aux différentielles 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

Analyse numérique. 2. Approximations et équations différentielles Moïse Sibony, 1982 Analyse numérique et

équations différentielles - 4ème Ed Jean-Pierre Demailly, 2016-05-11 T00:00:00+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 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 de 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

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 philosophique du système taylorien 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

Approximations successives et équations différentielles Emile Cotton, 1928

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