

AVRIL 2008

CONCOURS INGÉNIEURS DES TRAVAUX STATISTIQUES

TES Voies B Options Mathématiques

Corrigé de la 1^{ère} Composition de Mathématiques

Partie I : Les polynômes de Legendre

1. (a) $(x^2 - 1)^n$ est un polynôme de degré $2n$ de coefficient dominant 1 et L_n est un dérivée $n^{\text{ème}}$ degré.

L_n est un polynôme de degré n de coefficient dominant $2n(2n-1)\cdots(2n-n+1) = \frac{(2n)!}{n!}$

(14)

$$L_0(x) = (x^2 - 1)^0 = 1$$

$$L_1(x) = (x^2 - 1)^0 = x^2 - 1 \neq 0$$

$$L_2(x) = (x^2 - 1)^1 = (x^2 - 2x^2 + 1)^1 = 12x^2 - 4$$

$$L_3(x) = (x^2 - 1)^2 = (x^2 - 2x^2 + 2x^2 - 1)^2 = 6x^4 - 8x^3 + 4x^2 - 2x + 4 = 3x^4 - 12x^3 + 12x^2 - 72x + 72$$

- (a) Pour tout n , $(x^2 - 1)^n$ est un polynôme pair-impair, pair à pair ($k \leq 2n$), $\sum_{k=0}^{2n} (x^2 - 1)^k$ est un polynôme pair, et pour k impair, $\sum_{k=0}^{2n} (x^2 - 1)^k$ est un polynôme impair. En particulier, $[L_n]$ a la même parité que n .
- (d) Démonstration par récurrence. On a $L_0(1) = 1 = 2^0 = 0!$, l'assertion est vraie pour $n = 0$. Supposons que $L_{n-1}(1) = 2^{n-1}(n-1)!$. En appliquant la formule de Leibnitz et en remarquant que toutes les dérivées premières et secondes de $(x^2 - 1)$ ne sont pas nulles :

$$\begin{aligned} (x^2 - 1)(x^2 - 1)^{n-1} &= \sum_{k=0}^n C_n^k x^k - 1(x^{2n} - 1x^{2n-2} - 1x^{2n-4}) \\ &= x^2 - 1(x^{2n} - 1x^{2n-4} + C_n^2 x^2 - 1x^2(x^2 - 1)^{n-1}) \\ &\quad + C_n^2 x^2 - 1x^2(x^2 - 1)^{n-1} \\ &= x^2 - 1(x^{2n} - 1x^{2n-4} + C_n^2 2x(x^2 - 1)^{n-1}) \\ &\quad + C_n^2 2(x^2 - 1)^{n-1} \end{aligned}$$

D'autre part, d'après la caractérisation des racines multiples à l'aide des dérivées successives, 1 est racine simple de $((x^2 - 1)^{n-1})^{(n-1)}$ car 1 est racine de multiplicité

Polynomes Et Fonctions De Legendre 48

Paul Mansion



Polynomes Et Fonctions De Legendre 48:

History of Continued Fractions and Padé Approximants Claude Brezinski, 2012-12-06 The history of continued fractions is certainly one of the longest among those of mathematical concepts since it begins with Euclid's algorithm for the greatest common divisor at least three centuries B.C. As it is often the case and like Monsieur Jourdain in Molière's *Le bourgeois gentilhomme* who was speaking in prose though he did not know he was doing so continued fractions were used for many centuries before their real discovery. The history of continued fractions and Padé approximants is also quite important since they played a leading role in the development of some branches of mathematics. For example they were the basis for the proof of the transcendence of π in 1882 an open problem for more than two thousand years and also for our modern spectral theory of operators. Actually they still are of great interest in many fields of pure and applied mathematics and in numerical analysis where they provide computer approximations to special functions and are connected to some convergence acceleration methods. Continued fractions are also used in number theory computer science automata electronics etc.

Satellites Michel Capderou, 2002-10-02 Ce livre traite des orbites des satellites et montre comment leur grande diversité permet de répondre aux besoins de domaines aussi différents que les communications le positionnement la télédétection la météorologie ou l'astronomie. L'ouvrage débute par une étude du satellite dans le cadre des lois de la mécanique spatiale. Il présente ensuite les diverses catégories d'orbites et le problème de l'échantillonnage. Il s'achève sur des études de cas concrets. L'exposé est appuyé par de nombreuses applications figures et illustrations. Le CD fourni comporte un logiciel interactif permettant de déterminer l'orbite et l'échantillonnage d'un satellite.

Discretisations variationnelles de problèmes aux limites elliptiques Christine Bernardi, Yvon Maday, Francesca Rapetti, 2004-04-06 L'analyse numérique de deux types de discrétisations variationnelles est effectuée en détail pour des problèmes elliptiques les méthodes spectrales et les méthodes à éléments finis. Les avantages de chaque type sont mis en valeur et leur mise en œuvre est décrite. L'originalité de cet ouvrage est d'insérer ces deux types de discrétisation dans un cadre abstrait commun ce qui permet au lecteur d'appréhender l'approche bien d'autres méthodes et problèmes. Sont présentés également un algorithme pour coupler ces méthodes dans un cadre de composition de domaine et une application aux coulements de fluides incompressibles dans des milieux poreux. L'ouvrage s'adresse aux étudiants de 3^{ème} cycle en mathématiques appliquées et mécanique ainsi qu'à tous les ingénieurs intéressés par la simulation numérique.

Fonctions hypergéométriques et hypersphériques Paul Appell, Joseph Kampé de Fériet, 1926

Théorie générale des polynômes orthogonaux de Tchebichef James Alexander Shohat, 1934 *Traité de mécanique rationnelle: Figures d'équilibre d'une masse liquide homogène en rotation sous l'attraction newtonienne de ses particules. Leçon publiée avec le concours de M. Vernet. 1921* Paul Appell, 1921 *Traité de mécanique rationnelle: fasc. 2. Figures d'équilibre d'une masse liquide homogène en rotation. Figure de la terre et des planètes* Paul Appell, 1921

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du groupe du fer Jean Becquerel, 1947-01-01 T00:00:00+01:00 Cet ouvrage est une réédition numérique d'un livre paru au XXe siècle désormais indisponible dans son format d'origine [Generalized Hypergeometric Functions with Applications in Statistics and Physical Sciences](#) A. M. Mathai, R. K. Saxena, 2006-11-15 [Traité de mécanique rationnelle](#) Paul Appell, 1921

Research in History and Philosophy of Mathematics Maria Zack, Elaine Landry, 2015-11-10 This volume contains thirteen papers that were presented at the 2014 Annual Meeting of the Canadian Society for History and Philosophy of Mathematics La Société Canadienne d'Histoire et de Philosophie des Mathématiques held on the campus of Brock University in St Catharines Ontario Canada It contains rigorously reviewed modern scholarship on general topics in the history and philosophy of mathematics as well as on the meeting's special topic Early Scientific Computation These papers cover subjects such as Physical tools used by mathematicians in the seventeenth century The first historical appearance of the game theoretical concept of mixed strategy equilibrium George Washington's mathematical cyphering books The development of the Venn diagram The role of Euler and other mathematicians in the development of algebraic analysis Arthur Cayley and Alfred Kempe's influence on Charles Peirce's diagrammatic logic The influence publishers had on the development of mathematical pedagogy in the nineteenth century A description of the 1924 International Mathematical Congress held in Toronto told in the form of a narrated slide show Written by leading scholars in the field these papers will be accessible to not only mathematicians and students of the history and philosophy of mathematics but also anyone with a general interest in mathematics *Mécanique quantique* Albert Messiah, 1959 **Sur les fonctions hypergeometriques de plusieurs**

variables... Paul Emile Appell, 1925 **Mécanique quantique. 1** Albert Messiah, 1962 **The H-Function** A.M. Mathai, Ram Kishore Saxena, Hans J. Haubold, 2009-10-10 The H function or popularly known in the literature as Fox sH function has recently found applications in a large variety of problems connected with reaction diffusion reaction diffusion engineering and communication fractional differential and integral equations many areas of theoretical physics statistical

distribution theory etc One of the standard books and most cited book on the topic is the 1978 book of Mathai and Saxena Since then the subject has grown a lot mainly in the elds of applications Due to popular demand the authors were requested to grade and bring out a revised edition of the 1978 book It was decided to bring out a new book mostly dealing with recent applications in statistical distributions pa way models nonextensive statistical mechanics astrophysics problems fractional calculus etc and to make use of the expertise of Hans J Haubold in astrophysics area also It was decided to con ne the discussion toH function of one scalar variable only Matrix variable cases and many variable cases are not discussed in detail but an insight into these areas is given When going from one variable to many variables there is nothing called a unique bivariate or multivariate analogue of a givenfunction Whatever be the criteria used there may be manydifferentfunctions quali ed to be bivariate or multivariate analogues of a given univariate function Some of the bivariate and multivariateH functions currently in the literature are also questioned by many authors

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Table of Contents Polynomes Et Fonctions De Legendre 48

1. Understanding the eBook Polynomes Et Fonctions De Legendre 48
 - The Rise of Digital Reading Polynomes Et Fonctions De Legendre 48
 - Advantages of eBooks Over Traditional Books
2. Identifying Polynomes Et Fonctions De Legendre 48
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Polynomes Et Fonctions De Legendre 48
 - User-Friendly Interface
4. Exploring eBook Recommendations from Polynomes Et Fonctions De Legendre 48
 - Personalized Recommendations
 - Polynomes Et Fonctions De Legendre 48 User Reviews and Ratings
 - Polynomes Et Fonctions De Legendre 48 and Bestseller Lists

5. Accessing Polynomes Et Fonctions De Legendre 48 Free and Paid eBooks
 - Polynomes Et Fonctions De Legendre 48 Public Domain eBooks
 - Polynomes Et Fonctions De Legendre 48 eBook Subscription Services
 - Polynomes Et Fonctions De Legendre 48 Budget-Friendly Options
6. Navigating Polynomes Et Fonctions De Legendre 48 eBook Formats
 - ePub, PDF, MOBI, and More
 - Polynomes Et Fonctions De Legendre 48 Compatibility with Devices
 - Polynomes Et Fonctions De Legendre 48 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Polynomes Et Fonctions De Legendre 48
 - Highlighting and Note-Taking Polynomes Et Fonctions De Legendre 48
 - Interactive Elements Polynomes Et Fonctions De Legendre 48
8. Staying Engaged with Polynomes Et Fonctions De Legendre 48
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Polynomes Et Fonctions De Legendre 48
9. Balancing eBooks and Physical Books Polynomes Et Fonctions De Legendre 48
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Polynomes Et Fonctions De Legendre 48
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Polynomes Et Fonctions De Legendre 48
 - Setting Reading Goals Polynomes Et Fonctions De Legendre 48
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Polynomes Et Fonctions De Legendre 48
 - Fact-Checking eBook Content of Polynomes Et Fonctions De Legendre 48
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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