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Corrigé de la 1<sup>ton</sup> Composition de Mathématiques

#### Partie I : Les polynômes de Legendre

 (a) (f<sup>2</sup> − 1)<sup>n</sup> set un prépaison de degré 2n de coefficient élonissent 1 et Z<sub>n</sub> set en déstrois n<sup>ne</sup> dess.

 $L_n$  set un polysidane de dogré o de coefficient dominant  $2n(2n-1)\cdots(2n-n+1)=\frac{n+1}{2}$ 

4.364

$$E_{\alpha}(t) = \{(t^{\alpha} - 1)^{\alpha}\}^{(\alpha)} = 1.$$

$$L_1(t) = ((t^2 - 1)^2)^{(0)} = (t^2 - 1)^2 = 2t$$

$$L_2(t) = ((t^2 - 1)^2)^{2\delta} = (t^4 - 2t^2 + 1)^2 = 12t^2 - 4$$

$$L_0(t) = \{(t^2-1)^2\}^{(2)} = (t^2-2t^2+2t^2-1)^{(2)} = 6 \times 5 \times 4t^2 - 3 \times 4 \times 3 \times 2t = 120t^2 - 22t \,.$$

- (v) Pour tout n,  $(t^2-1)^n$  est us polynolous pair densi, pour k pair  $(k \le 2n)$ ,  $\underline{f}_n(t^2-1)^n$ est un polynolous pair, et pour k imposir,  $\underline{f}_n'(t^2-1)^n$  est un polynolous imposir. En particulier,  $[L_n]$  a in nature pariet spec n,
- (A) Dispussationium part riesurment. On a L<sub>2</sub>(1) = 1, ∞ 2<sup>n</sup> × 00, Tamertium set, vrain point is ∞ 0. Negapineous que L<sub>n-1</sub>(1) = 2<sup>n-1</sup>(n − 1)t. En appliquent la formalie de Leibnit et en remacquant que araba les dictivies premières et accondes de (t<sup>2</sup> − 1) au most pas unibre :

$$\begin{split} \{(t^k-1)(t^k-1)^{(n)} &= \sum_{k=0}^n C_n^k(t^k-1)^{(k)} \{(t^k-1)^{(n-k)}\}^{(n-k)} \\ &= (t^k-1)((t^k-1)^{(n)} + C_n^k(t^k-1)^{(n)} + C_n^k(t^k-1)^{(n)}) + C_n^k(t^k-1)^{(n-k)} \\ &+ C_n^k(t^k-1)^n ((t^k-1)^{(n)} + C_n^k(t^k-1)^{(n-k)} \\ &= (t^k-1)((t^k-1)^{(n)} + C_n^k(t^k-1)^{(n)} + C_n^k(t^k-1)^{(n-k)} \\ &+ C_n^k(t^k-1)^{(n-k)} (t^k-1)^{(n-k)} \}^{(n)} + C_n^k(t^k-1)^{(n-k)} \end{split}$$

El'autre part, d'ageits la caractérisation des ractues multiples à l'aide des dérivers sourcesives, 1 est ractue simple de  $(0)^d - 12^{m-1}2^{(m-1)}$  car 1 est ractue de multiplicité

# **Polynomes Et Fonctions De Legendre 48**

**Paul Appell** 

#### **Polynomes Et Fonctions De Legendre 48:**

Satellites Michel Capderou, 2002-10-02 Ce livre traite des orbites des satellites et montre comment leur grande diversit permet de r pondre aux besoins de domaines aussi diff rents que les communications le positionnement la t l d tection la m t orologie ou l'astronomie L'ouvrage d'bute par une tude du satellite dans le cadres des lois de la m canique spatiale Il pr sente ensuite les diverses cat gories d orbites et le probl me de l chantillonnage Il s ach ve sur des tudes de cas concrets L expos est tay par de nombreuses applications figures et illustrations Le CD fourni comporte un logiciel interactif permettant de d terminer l'orbite et l'chantillonnage d'un satellite **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 great est common divisor at least three centuries B C As it is often the case and like Monsieur Jourdain in Moliere's Ie bourgeois gentilhomme who was speak ing 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 Pade approximants is also quite im portant 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 tran scendence of 11 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. Con tinued fractions are also used in number theory computer science automata electronics etc Discrétisations variationnelles de problèmes aux limites elliptiques Christine Bernardi, Yvon Maday, Franscesca Rapetti, 2004-04-06 L analyse num rique de deux types de discr tisations variationnelles est effectu e en d tail pour des probl mes elliptiques les m thodes spectrales et les m thodes d l ments finis Les avantages de chaque type sont mis en valeur et leur mise en oeuvre est d crite L originalit de cet ouvrage est d ins rer ces deux types de discr tisation dans un cadre abstrait commun ce qui permet au lecteur d tendre l approche bien d autres m thodes et probl mes Sont pr sent s galement un algorithme pour coupler ces m thodes dans un cadre de d composition de domaine et une application aux coulements de fluides incompressibles dans des milieux poreux L ouvrage s adresse aux tudiants de 3 me cycle en math matiques appliqu es et m canique ainsi qu tous les ing nieurs int ress s par la simulation num Fonctions hypergéométriques et hypersphériques Paul Appell, Joseph Kampé de Fériet, 1926 Traité de rique mécanique rationnelle: Figures d'équilibre d'une masse liquide homogène en rotation sous l'attraction newtonienne de ses particules. Leçon publiées avec le concours de M. Vérnnet. 1921 Paul Appell,1921 Notice sur les travaux mathématiques de Eugène-Charles Catalan Paul Mansion, 1896 Traité de mécanique rationnelle Paul Propriétés magnétiques générales de divers composés des éléments du groupe du fer Jean Appell,1921 Becquerel, 1947-01-01T00:00:00+01:00 Cet ouvrage est une r dition num rique d un livre paru au XXe si cle d sormais

indisponible dans son format d'origine Méthodes numériques et optimisation Jean-Pierre Corriou, 2022-10-18 Cet ouvrage pr sente une synth se de l'essentiel des m'thodes num riques et d'optimisation sous un angle th'orique et pratique Chaque chapitre pr sente les m'thodes de mani re progressive Chacune des m'thodes est syst matiquement associ e des exemples et des exercices Il s'adresse aux tudiants en universit s'et coles d'ing nieurs ainsi qu'aux enseignants chercheurs et ing nieurs

Mécanique quantique Albert Messiah, 1959 The H-Function A.M. Mathai, Ram Kishore Saxena, Hans J. Haubold, 2009-10-10 TheH 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 differ tial 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 I Haubold in astrophysics area also It was decided to con ne the discussion to H 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 Revue Semestrielle Des Publications Mathématiques ,1923 Revue Semestrielle Des Publications Mathematiques ,1893 Traité de mécanique rationelle: fasc. 2. Figures d'équilibre d'une masse liquide homogène en **Polynomial expansions of analytic functions** Ralph P. rotation. Figure de la terre et des planétes Paul Appell,1921 Boas, Robert Creighton Buck, 2013-06-29 This monograph deals with the expansion properties in the complex domain of sets of polynomials which are defined by generating relations It thus represents a synthesis of two branches of analysis which have been developing almost independently On the one hand there has grown up a body of results dealing with the more or less formal prop erties of sets of polynomials which possess simple generating relations Much of this material is summarized in the Bateman compendia ERDELYI 1 voi III chap 19 and in TRUESDELL 1 On the other hand a problem of fundamental interest in classical analysis is to study the representability of an analytic function f z as a series Lc p z where p is a prescribed sequence of functions and the connections between the function f and the coefficients c BIEBERBACH s mono graph Analytische Fortsetzung Ergebnisse der Mathematik new series no 3 can be regarded as a study of this problem for the special choice p z z and illustrates the depth and detail which such a specializa tion allows However the wealth of available information about other sets of polynomials has seldom been put to work in this connection the application of

generating relations to expansion of functions is not even mentioned in the Bateman compendia At the other extreme J M **Polynomial Expansions of Analytic Functions** Ralph P.Jr. Boas, R.C. Buck, 2012-12-06 This monograph deals with the expansion properties in the complex domain of sets of polynomials which are defined by generating relations It thus represents a synthesis of two branches of analysis which have been developing almost independently. On the one hand there has grown up a body of results dealing with the more or less formal properties of sets of polynomials which possess simple generating relations Much of this material is summarized in the Bateman compendia ERDELYI 1J vol III chap 19 and in TRUESDELL 1] On the other hand a problem of fundamental interest in classical analysis is to study the representability of an analytic function j z as a series 2 CnPn z where Pn is a prescribed sequence of functions and the connections between the function j and the coefficients en BIEBERBACH S mono graph Analytische Fortsetzung Ergebnisse der Mathematik new series no 3 can be regarded as a study of this problem for the special choice Pn z zn and illustrates the depth and detail which such a specialization allows However the wealth of available information about other sets of polynomials has seldom been put to work in this connection the application of generating relations to expansion of functions is not even mentioned in the Bateman compendia At the other extreme J M **Interpolation Processes** Giuseppe Mastroianni, Gradimir Milovanovic, 2008-08-24 Interpolation of functions is one of the basic part of Approximation Theory There are many books on approximation theory including interpolation methods that peared in the last fty years but a few of them are devoted only to interpolation processes An example is the book of J Szabados and P V rtesi Interpolation of Functions published in 1990 by World Scienti c Also two books deal with a special interpolation problem the so called Birkhoff interpolation written by G G Lorentz K Jetter S D Riemenschneider 1983 and Y G Shi 2003 The classical books on interpolation address numerous negative results i e sultsondivergentinterpolation processes usually constructed oversome equidistant system of nodes. The present book deals mainly with new results on convergent terpolation processes in uniform norm for algebraic and trigonometric polynomials not yet published in other textbooks and monographs on approximation theory and numerical mathematics Basic tools in thiseld orthogonal polynomials moduli of smoothness K functionals etc as well as some selected applications in numerical integration integral equations moment preserving approximation and summation of slowly convergent series are also given The rstchapterprovidesanaccountofbasicfactsonapproximation by algebraic and trigonometric polynomials introducing the most important concepts on appro mation of functions Especially in Sect 1 4 we give basic results on interpolation by algebraic polynomials including representations and computation of interpolation polynomials Lagrange operators interpolation errors and uniform convergence in some important classes of functions as well as an account on the Lebesgue function and some estimates for the Lebesgue constant

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 Soci t Canadienne d Histoire et

de Philosophie des Math matiques 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. 1 Albert Messiah, 1962

Sur les fonctions hypergeometriques de plusieurs variables... Paul Emile Appell, 1925

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