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Approximations for Digital Computers



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Approximations For Digital Computers

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Approximations For Digital Computers:

Approximations for Digital Computers Cecil Hastings Jr., Jeanne T. Wayward, James P. Wong Jr., 2015-12-08 Numerical analysts and computer operators in all fields will welcome this publication in book form of Cecil Hastings well known approximations for digital computers formerly issued in loose sheets and available only to a limited number of specialists In a new method that combines judgment and intuition with mathematics Mr Hasting has evolved a set of approximations which far surpasses in simplicity earlier approximations developed by conventional methods Part I of this book introduces the collection of useful and illustrative approximations each of which is presented with a carefully drawn error curve in Part II Originally published in 1955 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 **Approximations for Digital Computers, By Cecil Hastings, Jr., Assisted by Jeanne T. Hayward (And) James P. Wong, Jr** Cecil Hastings, 1955 **Programmieren von Ziffernrechenanlagen** Walter Knödel, 2013-12-01 **Numerical Recipes 3rd Edition** William H. Press, 2007-09-06 Do you want easy access to the latest methods in scientific computing This greatly expanded third edition of Numerical Recipes has it with wider coverage than ever before many new expanded and updated sections and two completely new chapters The executable C code now printed in colour for easy reading adopts an object oriented style particularly suited to scientific applications Co authored by four leading scientists from academia and industry Numerical Recipes starts with basic mathematics and computer science and proceeds to complete working routines The whole book is presented in the informal easy to read style that made earlier editions so popular Highlights of the new material include a new chapter on classification and inference Gaussian mixture models HMMs hierarchical clustering and SVMs a new chapter on computational geometry covering KD trees quad and octrees Delaunay triangulation and algorithms for lines polygons triangles and spheres interior point methods for linear programming MCMC an expanded treatment of ODEs with completely new routines and many new statistical distributions For support or to subscribe to an online version please visit www.nr.com **Optimierung und Approximation** Werner Krabs, 2013-11-21 **Vorlesung über Approximationstheorie** Helmut Werner, 2012-03-22 Dieses Manuskript ist die Ausarbeitung einer im Sommersemester 1964 gehaltenen Vorlesung deren Ziel es war die Hörer mit den Problemen der Approximationstheorie vertraut zu machen die die Grundlage des numerischen Arbeitens bilden Da keine speziellen Vorkenntnisse vorausgesetzt wurden mu ten auch die klassischen Fragen behandelt oder enigstens gestreift werden Den Hauptgegenstand bildete die Theorie der Tschebyscheff Approximation stetiger Funktionen Im Gegensatz zu der Einföhrung von J Rice siehe Literatur Ver zeichnis 1964J wurden Polynom Approximation und rationale Approximation

gemeinsam behandelt da man vielraeh die gleichen qUalitativen Resultate erhalt wenn man normal Funktionen verwendet Leider trifft diese Feststellung fUr die Konvergenz des Remes Algo rithmus im Gro5en nicht zu Obgleich seit Niedersehr t der Vorle sung weitere Ergebnisse erzielt worden sind steht eine vollige Klarung der Verhaltnisse noeh aus Siehere Algorithmen zur Bereehnung der rationalen Tsehebyseheff Approximierenden sind sebr schwerfallig andere die elegant sind konvergieren nur wenn die Ansatzfunktion bereits gut genug war Der als Anhang beigefligte Algorithmus stellt einen hoffentlich guten KompromiS dar Folgerungen aus Eigenschaften der zu approximierenden Funktion die fiber die Stetigkeit hinausgehen konnten aus Zeitmangel kaum berueksichtigt werden Es kann in dieser Hinsieht auf das Bueh von G Meinardus 1964J verwiesen werden Ieh danke Herrn Dipl Math G Lamprecht fur die Anfertigung der Vorlesungsnachschrift den Herren Dipl Hath H Biermann und Dipl l lath W Dost sowie Frau Stud Assessorin I Werner fiir die Hilfe bei der Korrektur

Elliptische Integrale für TI-58/59 Peter Kahlig,2013-03-09 **Computer Approximations** John F. Hart,1978 Publisher description This handbook is intended to acquaint users with methods for designing function subroutines and in the case of the most commonly needed functions to provide them with the necessary tables to do so efficiently **Mathematische Hilfsmittel des Ingenieurs** Tatomir P. Angelitch,Robert Sauer,G. Aumann,Friedrich Wilhelm Bauer,R. Bulirsch,H. P. Künzi,H. Rutishauser,K. Samelson,J. Stoer,2013-03-08 **RAND and the Information Evolution** Willis H. Ware,Peter Chalk,Richard Warnes,Lindsay Clutterbuck,Aidan Kirby Winn,Sheila Nataraj Kirby,2008-12-09 This professional memoir describes RAND s contributions to the evolution of computer science particularly during the first decades following World War II when digital computers succeeded slide rules mechanical desk calculators electric accounting machines and analog computers The memoir includes photographs and vignettes that reveal the collegial creative and often playful spirit in which the groundbreaking research was conducted at RAND A First Course in Numerical Analysis Anthony Ralston,Philip Rabinowitz,2001-01-01 Outstanding text oriented toward computer solutions stresses errors in methods and computational efficiency Problems some strictly mathematical others requiring a computer appear at the end of each chapter *Various Methods and Computer Routines for Approximation, Curve Fitting, and Interpolation* James F. Price,R. H. Simonsen,1963

Scientific and Technical Aerospace Reports ,1982 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Computers and Data Processing Systems** ,1962 **Approximation von Funktionen und ihre numerische Behandlung** Günter Meinardus,2013-03-08 Erst in den letzten Jahren hat sich derjenige Tell der Approximations theorie der sich auf numerische Fragestellungen anwenden liiBt starker entwickelt Das Prinzip der in einem gewissen Sinne besten Anniiherung von Funktionen gewann insbesondere durch die Verwendung elektro nischer Rechenmaschinen an Bedeutung Einige der theoretischen Grundlagen die zur Behandlung der auftretenden Probleme herange zogen werden müssen finden sich verstreut in wenigen Buchern Der weitaus gr6Bte Teil der theoretischen und

praktischen Untersuchungen ist jedoch nur in den Originalarbeiten nachzulesen. Hieraus ergab sich die Zielsetzung des vorliegenden Buches. Es sollte eine Zusammenstellung der wesentlichen Ergebnisse der Approximationstheorie gegeben werden, die einerseits ein rasches Eindringen in die modernen Entwicklungen dieses Gebietes ermöglicht und andererseits eine gewisse Vollständigkeit auf dem Problemkreis der Tschebyscheff Approximationen bietet, womit keineswegs gemeint ist, daß eine vollständige Literaturübersicht angestrebt wurde. Die Auswahl erfolgte stets nach dem immer noch subjektiven Gesichtspunkt der Bedeutung für die Anwendungen. Dies gilt z. B. auch für die asymptotischen Untersuchungen des Sect. 3, denn ich bin der Meinung, daß man sich auch bei numerischen Approximationen über die wenigstens asymptotisch zu erwartende Genauigkeit Gedanken machen sollte. Fast ausschließlich habe ich mich auf die Theorie der gleichmäßigen Approximation beschränkt, da diese die weitaus größte praktische Bedeutung besitzt. Das erste Kapitel behandelt lineare Approximationen. Der Sect. 3 enthält wohl den heute kürzesten Zugang zur linearen Theorie.

Approximation Theory R. Schaback, K. Scherer, 2006-11-15

The Physical Signature of Computation Neal G. Anderson, Gualtiero Piccinini, 2024-07-12

In *The Physical Signature of Computation* Neal Anderson and Gualtiero Piccinini articulate and defend the robust mapping account, the most systematic, rigorous, and comprehensive account of computational implementation to date. Drawing in part from recent results in physical information theory, they argue that mapping accounts of implementation can be made adequate by incorporating appropriate physical constraints. According to the robust mapping account, the key constraint on mappings from physical to computational states is that the key for establishing that a computation is physically implemented is physical-computational equivalence: evolving physical states bear neither more nor less information about the evolving computation than do the computational states they map onto. When this highly nontrivial constraint is satisfied, among others, that are spelled out as part of the account, a physical system can be said to implement a computation in a robust sense, which means that the system bears the physical signature of the computation. Anderson and Piccinini apply their robust mapping account to important questions in physical foundations of computation and cognitive science, including the alleged indeterminacy of computation, pancomputationalism, and the computational theory of mind. They show that physical computation is determinate; nontrivial versions of pancomputationalism fail; and cognition involves computation only insofar as neurocognitive systems bear the physical signature of specific computations. They also argue that both consciousness and physics outstrip computation.

Register of the University of California University of California (1868-1952), 1957

Taschenbuch der Nachrichtenverarbeitung Karl Steinbuch, 1962

Computer Literature Bibliography United States. National Bureau of Standards, 1965

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