Example 1

A liquid-liquid extraction process conducted in the Electrochemical Materials Laboratory involved the extraction of nickel from the aqueous phase into an organic phase. A typical set of experimental data from the laboratory is given below.

Ni AQUEOUS PHASE, a (g/l)	2	2.5	3
Ni ORGANIC PHASE, g (g/l)	8.57	10	12

ASSUMING g IS THE AMOUNT OF Ni IN THE ORGANIC PHASE AND a IS THE AMOUNT OF Ni IN THE AQUEOUS PHASE, THE QUADRATIC INTERPOLANT THAT ESTIMATES g IS GIVEN BY

$$g = x_1 a^2 + x_2 a + x_3, 2 \leq a \leq 3$$

THE SOLUTION FOR THE UNKNOWNS x_1, x_2, AND x_3 IS GIVEN BY

$$\begin{bmatrix} 4 & 2 & 1 \\ 6.25 & 2.5 & 1 \\ 9 & 3 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 8.57 \\ 10 \\ 12 \end{bmatrix}$$

FIND THE VALUES OF x_1, x_2, AND x_3 USING THE GAUSS-SEIDEL METHOD. ESTIMATE THE AMOUNT OF NICKEL IN THE ORGANIC PHASE WHEN 2.3 G/L IS IN THE AQUEOUS PHASE USING QUADRATIC INTERPOLATION. USE

$$\begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$$

AS THE INITIAL GUESS AND CONDUCT TWO ITERATIONS.

Solution:-

REWRITING THE EQUATIONS GIVES

$$x_1 = \frac{8.57 - 2x_2 - x_3}{4}$$

$$x_2 = \frac{10 - 6.25x_1 - x_3}{2.5}$$

$$x_3 = \frac{12 - 9x_1 - 3x_2}{1}$$

ITERATION #1
GIVEN THE INITIAL GUESS OF THE SOLUTION VECTOR AS

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Maryland Baltimore Country Campus This symposium aims to bring together a number of numerical analysis involved in research in both theoretical and practical aspects of this field This text is organized into three parts encompassing 15 chapters Part I reviews the initial and boundary value problems Part II explores a large number of important results of both theoretical and practical nature of the field including discussions of the smooth and local interpolant with small K th derivative the occurrence and solution of boundary value reaction systems the posteriori error estimates and boundary problem solvers for first order systems based on deferred corrections Part III highlights the practical applications of the boundary value problems specifically a high order finite difference method for the solution of two point boundary value problems on a uniform mesh This book will prove useful to mathematicians engineers and physicists   Handbook of Numerical Analysis Philippe G. Ciarlet,Jacques-Louis Lions,1990 This series of volumes covers all the major aspects of numerical analysis serving as the basic reference work on the subject Each volume concentrates on one to three particular topics Each article written by an expert is an in depth survey reflecting up to date trends in the field and is essentially self contained The handbook will cover the basic methods of numerical analysis under the following general headings solution of equations in Rn finite difference methods finite element methods techniques of scientific computing optimization theory and systems science It will also cover the numerical solution of actual problems of contemporary interest in applied mathematics under the following headings numerical methods for fluids numerical methods for solids and specific applications including meteorology seismology petroleum mechanics and celestial mechanics   Explorations In Numerical Analysis James V Lambers,Amber C Sumner Mooney,2018-09-17 This textbook introduces advanced undergraduate and early career graduate students to the field of numerical analysis This field pertains to the design analysis and implementation of algorithms for the approximate solution of mathematical problems that arise in applications spanning science and engineering and are not practical to solve using analytical techniques such as those taught in courses in calculus linear algebra or differential equations Topics covered include error analysis computer arithmetic solution of systems of linear equations least squares problems eigenvalue problems polynomial interpolation and approximation numerical differentiation and integration nonlinear equations optimization ordinary differential equations and partial differential equations For each problem considered the presentation includes the derivation of solution techniques analysis of their efficiency accuracy and robustness and details of their implementation illustrated through the MATLAB programming language This text is suitable for a year long sequence in numerical analysis and can also be used for a one semester course in numerical linear algebra   *Studies in Numerical Analysis 2 Numerical Solutions of Nonlinear Problems a Collection of Papers Presented at Symposia in Numeial* United States,1970   **Numerical Analysis Using R** Graham W. Griffiths,2016-04-26 This book presents the latest numerical solutions to initial value problems and boundary valu problems described by ODES Ordinary differential equations and PDEs partiral differential equations The primary focus in numerical solutions to initial value problems IVPs

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of numerical analysis including substantial grounding in the basic operations of computation approximation interpolation numerical differentiation and integration and the numerical solution of equations as well as in applications to such processes as the smoothing of data the numerical summation of series and the numerical solution of ordinary differential equations Chapter headings include l Introduction 2 Interpolation with Divided Differences 3 Lagrangian Methods 4 Finite Difference Interpolation 5 Operations with Finite Differences 6 Numerical Solution of Differential Equations 7 Least Squares Polynomial Approximation In this revised and updated second edition Professor Hildebrand Emeritus Mathematics MIT made a special effort to include more recent significant developments in the field increasing the focus on concepts and procedures associated with computers This new material includes discussions of machine errors and recursive calculation increased emphasis on the midpoint rule and the consideration of Romberg integration and the classical Filon integration a modified treatment of prediction correction methods and the addition of Hamming s method and numerous other important topics In addition reference lists have been expanded and updated and more than 150 new problems have been added Widely considered the classic book in the field Hildebrand s Introduction to Numerical Analysis is aimed at advanced undergraduate and graduate students or the general reader in search of a strong clear introduction to the theory and analysis of numbers

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