

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

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

THE SOLUTION FOR THE UNKNOWN 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

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

ITERATION #1

GIVEN THE INITIAL GUESS OF THE SOLUTION VECTOR AS

Numerical Analysis Problems And Solutions

Research and Education Association



Numerical Analysis Problems And Solutions:

The book delves into Numerical Analysis Problems And Solutions. Numerical Analysis Problems And Solutions is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Numerical Analysis Problems And Solutions, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Numerical Analysis Problems And Solutions
 - Chapter 2: Essential Elements of Numerical Analysis Problems And Solutions
 - Chapter 3: Numerical Analysis Problems And Solutions in Everyday Life
 - Chapter 4: Numerical Analysis Problems And Solutions in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, the author will draw a conclusion about Numerical Analysis Problems And Solutions. This chapter will summarize the key points that have been discussed throughout the book.
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