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A Computer Operated Titrator

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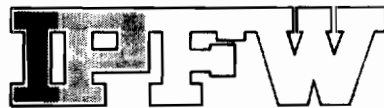
for

A COMPUTER OPERATED TITRATOR
title

in partial fulfillment of the requirements

for the degree of

BACHELOR OF SCIENCE



presented to the

ELECTRICAL ENGINEERING TECHNOLOGY FACULTY

INDIANA UNIVERSITY-PURDUE UNIVERSITY AT FORT WAYNE

APR 30, 1987
date

by

Jed Owen

GRADE: _____

APPROVED: _____

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Abstract
of
A Computer Operated Titrator
by
Ted Owen

This paper describes the project of building and operating a computer operated titrator. Titration is the process of adding either an acid or a base to increase or decrease the acidity level of a solution. This project allows a user to choose a low to high titration or a high to low titration. Then the user inputs the desired PH value into the IBM computer. All of the software is downloaded to the SDK-86 which utilizes the 8086 microprocessor.

Through the software the user's PH value is compared to the value read into the computer from the PH meter. If the two are not equal the computer sends a signal to the constant rate buret which dispenses either an acid or a base into the solution, depending on the users choice of titration. This process continues until the two PH values are equal.