

The search of new roots and techniques of drug administration gave rise to brisk activity in the area of drug delivery through skin and Iontophoresis is found to be a promising tool to this effect. In Iontophoresis there is a need of pulsating power supply whose characteristics can be controlled and modified as per need to optimize the design of Iontophoresis based drug delivery system. The research in the field of Microsystems is progressively directed towards smart electronic interfacing which provides the ability of performing complex operations. Specially designed interfacing electronics for specific applications improve the performances and provide a user-friendly environment. Data acquisition system is extensively employed in a number of automatic test and measuring equipment. They are used to collect the required data from any peripheral input devices, such as meters, sensors etc. via controlling program. The measured data could be stored in the PC in a file for further processing and the data can be displayed numerically or graphically as a curve on the screen.



Myself Dr. Surekha Munde, Currently working as Assistant Professor in Physics in P.E.S. College of Engineering, Aurangabad. I have published one Indian Patent and filed for two Australian Patents also. I have published research papers in National, International journals. My research area is Diffusion, Thin films, Fractals, Nanotechnology etc.

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A system for Iontophoresis Power Supply and Data Acquisition system

Microcontroller based Iontophoresis Power Supply and Data Acquisition system



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Cover image: www.ingimage.com

Publisher:

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International Book Market Service Ltd., member of OmniScriptum Publishing Group

17 Meldrum Street, Beau Bassin 71504, Mauritius

Printed at: see last page

ISBN: 978-620-2-81678-6

Zugl. / Approved by: A system for Iontophoresis Power Supply and Data Acquisition system

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Design Consideration of Iontophoresis Power Supply

1. Introduction

The search of new routes and techniques of drug administration gave rise to brisk activity in the area of drug delivery through skin and Iontophoresis [1-3] is found to be a promising tool to this effect. The researchers working in this area need advanced electronics devices to suit their requirements of experimentation. In Iontophoresis there is a need of pulsating power supply whose characteristics can be controlled and modified as per need to optimize the design of Iontophoresis based drug delivery system[4]. The research in the field of Microsystems is progressively directed towards smart electronic interfacing [5-7] which provides the ability of performing complex operations.

Specially designed interfacing electronics for specific applications improve the performances and provide a user-friendly environment. Data acquisition system [8-11] is extensively employed in a number of automatic test and measuring equipment. They are used to collect the required data from any peripheral input devices,