

# CONTENTS

- A microwave planar oscillator with parallel-metal-plates  
reflector structure .....Takahiro HIRASHIMA and Satoshi TANAKA..... 1
- Development of a UVR Spectrometer and Its Application  
to Environmental UVR measurements  
.....Akinori IWAMOTO and Itsumasa URABE..... 9
- Production of Poly-Aniline Films and The Film EC  
Characteristic .....Kouichi FUJIMURA and Yoshinao IIDA..... 17
- A Proposal of Negative Resistance Devices owing to  
Quantum Interference Effect.....Asuo AISHIMA and Naoki YOSHIDA..... 25
- SEQUENTIAL DATA COMPRESSION WITH DOUBLE  
TRACING METHOD .....Masahiro FUJIMOTO..... 31
- Scintillation of far-infrared laser beam of wavelength in  
absorption region  
.....Naoki KAGAWA, Osami WADA, Ryuji KOGA, Hiroya SANO..... 39
- Control Effect of Traffic Accidents and Speed of Car in  
Community Road .....Toshihide MIWA and Hideo IKEZIRI..... 47
- Application of Rotary Spectral Analysis to Array  
Observation Records .....Toshiaki CHIBA and Junzou KIMURA..... 53
- Study on Preservation of the Water Quality and the  
Methods of Self-Purification in an Urban River  
— on the subject of the Takaya River — .....Masaru OJIMA..... 61
- Determination of Importance Degree of Water Supply  
Network .....Toshiaki CHIBA and Yoji SHIMIZU..... 77
- A Study on Evaluation of Population Resources of 93  
Municipalities for Improving Regional Facilities in  
Hiroshima Prefecture .....Yoshinobu MUROTA..... 85
- Feedback Adaptation of Traffic Congestion Length  
..... Hikaru SHIMIZU and Edward J.DAVISON..... 91
- Original Method for Visualizing Streamlines Around  
Hypersonic Vehicles .....Masatomi NISHIO.....105
- Basic Examination of The Humidity Transducer Using  
The Liquid Paraffin .....Yosinao IIDA.....115