



APPLIED SPECTROSCOPY REVIEWS  
Vol. 37, No. 4, pp. 383–428, 2002

A REVIEW OF RECENT APPLICATIONS  
OF NEAR INFRARED SPECTROSCOPY,  
AND OF THE CHARACTERISTICS OF  
A NOVEL PbS CCD ARRAY-BASED  
NEAR-INFRARED SPECTROMETER

Peter Stchur,<sup>1</sup> Danielle Cleveland,<sup>2</sup> Jack Zhou,<sup>3</sup>  
and Robert G. Michel<sup>1,\*</sup>

<sup>1</sup>Department of Chemistry, University of Connecticut,  
55 North Eagleville Road, Storrs, CT 06269-3060, USA

<sup>2</sup>Carroll College, Department of Chemistry,  
100 N. East Avenue, Waukesha, WI 53186, USA

<sup>3</sup>B&W Tek, 825 Dawson Drive, Suite 1, Newark,  
DE 19713, USA

CONTENTS

|  |     |
|--|-----|
| ABSTRACT .....                         | 384 |
| I. INTRODUCTION .....                  | 385 |
| II. CHEMOMETRICS .....                 | 386 |
| III. INSTRUMENTATION .....             | 389 |
| IV. LITERATURE NIR APPLICATIONS ... .. | 391 |

\*Corresponding author. Fax: 860 486 2981; E-mail: robert.g.michel@uconn.edu