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In the first chapter,
the question as to
whether chemical
sensors and
biosensors have to be
differentiated is
discussed. In the
course of this chapter,
chemical sensors are

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defined and related to particular areas in analytical chemistry.

A brief history of the field is given describing the development of chemical sensors.

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development based
on ternary $B_2O_3 \cdot ZnO$
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environmental safety.

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Applications for

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biochemical sensors

are reviewed.

Standard processing
steps originating from
semiconductor

technology are

detailed, and specific

mi-cromachining

steps to fabricate

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Wireless chemical
sensors and
biosensors: A review

...

Sensors consist of
chemical or biological
receptors that
specifically interacts
with a target analyte,
and a transducer that
converts the
recognition process

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Electrochemical
sensors are based on
reaction with the
chemical solutions
and generate an
electrical signal that is
proportional to the
analyte concentration.
8 The electrochemical
techniques can be ...

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Biosensors for
Internet of Things and

This review focuses
on chemical sensors
and biosensors for
detecting melamine
residue. We present
the principles, the
mechanisms and the
performances of the
sensors including
optical sensors,
electrochemical

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sensors, aptamer-based sensors and immunosensors. We also propose the future perspectives in developing sensors for the detection of melamine.

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Fundamentals and ...
Wireless chemical
sensors (WCSs) are

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hybrid devices that collect (bio)chemical data from their local environment and then process and transmit this chemical analytical information to a remote device, or devices, by wireless technology, most usually by radio communications, Fig. 1a.. Download :
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In aquaculture
industry, fish,
shellfish, and aquatic
plants are cultivated
in fresh, salt, or
brackish waters. The
increasing demand of

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aquatic products has stimulated the rapid growth of aquaculture industries. How to effectively monitor and control water quality is one of the key concerns for aquaculture industry to ensure high productivity and high quality. There are four major categories ...

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Chemical sensors are self-contained analytical devices that provide real-time information on chemical composition. A chemical sensor integrates two distinct functions: recognition and ... , this book is valuable to anyone

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combining underlying theory with bang up to date topics such as nanotechnology and electronic noses. The text is suitable for graduate students and research scientists with little background in analytical chemistry.

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A chemical sensor based on recognition material of biological nature is a biosensor. However, as synthetic biomimetic materials are going to substitute to some extent recognition biomaterials, a sharp distinction between a biosensor and a

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standard chemical
sensor is superfluous.

Chemical, Gas, and
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...

A biosensor is an
analytical device,
used for the detection
of a chemical
substance, that
combines a biological
component with a

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physicochemical detector. The sensitive biological element, e.g. tissue, microorganisms, organelles, cell receptors, enzymes, antibodies, nucleic acids, etc., is a biologically derived material or biomimetic component that interacts with, binds with, or recognizes ...

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Biomedical and ...

chemical sensors;

optical chemical

sensors [6][8],

electrochemical

sensor [4], [9][11],

online measurement

sensor [12], acoustic

sensor [13] and many

other types.

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Biosensors are also important for successful wastewater quality management, especially in biological wastewater

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