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general discussion; Summary; Index of contributors; Subject index

Sommario/riassunto

Microbial responses to acidic and alkaline pH are important in many areas of bacteriology. For example, the mechanisms of resistance to acidic pH are important in the understanding of the passage of human pathogens through the acid of the stomach; and an understanding of microbial degradation of alkaline industrial waste is important for the environment. Bringing together contributions from an international and interdisciplinary group of experts working on the many aspects of bacterial cellular responses to pH, this stimulating volume draws together new and innovative work in this area.

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Titolo

Integrierte Lagesensorik für ein adaptives mikrooptisches Ablenkensystem

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In einem mikrooptischen Ablenkensystem sollen die sensorischen Eigenschaften der ferromagnetischen Formgedächtnislegierung Ni-Mn-Ga untersucht werden. Dabei kommt ein elektro-thermisch aktivierbarer, durch einen Permanentmagneten vorausgelenkter Dünnfilm-Biegeaktor zur Strahlableitung zum Einsatz. Die Untersuchung der Eignung des magnetoresistiven Materials zur Positionsermittlung ist Ziel dieser Arbeit. Zur vergleichenden Bewertung werden kapazitive und resistive Referenzsensoren herangezogen.