

# INDUSTRIAL APPLICATION

Many researchers place their hopes on the use of a synchrotron radiation facility as a tool for the development of new materials or new products. For these purposes, collaborations have been vigorously initiated between companies, or between companies and universities or public institutes at some of SPring-8's beamlines.

The subjects proposed to clarify the problems for improving or creating many interesting materials, and addressing the applications. To assess these proposals, measurements using X-ray diffraction, X-ray reflection, phase contrast imaging, and X-ray absorption fine structure techniques were carried out.

Here, six carefully selected experiments successfully accomplished in 2001B and 2002A are presented. The very interesting topics referred in this section were achieved by using the following three different beamlines, namely, one topic using Hyogo beamline, BL24XU, two topics using the public beamline for Engineering Science Research, BL19B2, and three topics using the contract beamline for Industrial Consortium ID (SUNBEAM-ID), BL16XU.

These studies include very important matters or scientific technologies for industrial use, and it is certain that they will be continued in greater detail because the technology has made remarkable progress lately and there is strong international competition to win the race of making better products.

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