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(Invited) Industrial imaging using high energy photons

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The importance of advanced imaging modalities in modern medicine is widely appreciated. Probably less familiar is their potential use for studying engineering processes in industry. This is especially true of techniques based on the use of high energy photons which can penetrate metal casings. Transmission imaging can distinguish individual phases in multi-phase flow, while the use of radioactive tracers (in SPECT or PET) reveals more subtle differences and provides some dynamic information. By tracking radioactive particles (in RPT or PEPT) velocity fields can be mapped. This paper will briefly present examples of all these techniques and consider some of the opportunities and challenges for industrial imaging using high energy photons.

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