

10

OPTICAL TOMOGRAPHY SYSTEM BASED ON CHARGES-COUPLED DEVICE LINEAR IMAGE SENSORS

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10.1 INTRODUCTION

Industrial processes are often controlled using process measurements at one or more points. The amount of information contained in such measurements is often minimal, and in some cases (multiphase flow) there are no adequate sensors [1]. To understand better certain chemical processes, a more sophisticated approach is needed. Process tomography is a means of visualising the internal behaviour of industrial processes, where tomographic images provide valuable information about the process for assessment of equipment designs and on-line monitoring [2].

Current activity in the development of new investigative
