1. Record Nr. UNINA9910829058003321 Autore Schneider Stefan Titolo Automatic modeling and fault diagnosis of timed concurrent discrete event systems / / Stefan Schneider Pubbl/distr/stampa Berlin:,: Logos,, [2015] ©2015 **ISBN** 3-8325-9498-1 Descrizione fisica 1 online resource (184 pages) Disciplina 003.83 Soggetti Discrete-time systems Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali PublicationDate: 20150530 Sommario/riassunto Long description: The productive operation of machines and facilities is of great economic importance for industrial companies. In order to achieve high productivity, unscheduled production downtimes induced by faults need to be minimized. In this work, an approach for modelbased fault diagnosis of timed concurrent Discrete Event Systems is proposed that can contribute to this aim. The models are automatically determined by timed identification and partitioning. These approaches allow for efficient modeling of large and complex industrial systems with concurrent behavior requiring only little system knowledge. The work explains the theoretical and practical aspects of

laboratory manufacturing system.

the presented approaches and gives a detailed evaluation based on a