

## ASIGURAREA CALITĂȚII – QUALITY ASSURANCE

### CUPRINS – CONTENTS

- |  |    |
|--|----|
| <input type="checkbox"/> <b>Expectations of Charity Donors</b><br><i>Ton van der Wiele, Jos van Iwaarden, Claire Moxham</i>  | 2  |
| <input type="checkbox"/> <b>Models of logistic support systems</b><br><i>Tomasz Nowakowski, Sylwia Werbinska-Wojciechowska</i>   | 9  |
| <input type="checkbox"/> <b>Numerical Assessment of Simplified Formulas for Electrostatic Simulation and Design of Micro-Electro-Mechanical Systems (MEMS)</b><br><i>Raffaele Ardito, Leonardo Baldassarre, Alberto Corigliano</i> | 21 |
| <input type="checkbox"/> <b>About Reliability Modelling of Electronic Components and Systems</b><br><i>Marius Bazu, Titu Bajenescu</i>   | 29 |

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# Expectations of Charity Donors

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## **Abstract**

It is the aim of this paper to look at the criteria one group of stakeholders of charities, namely individuals, use to decide which charity they support. The research will be focused on the analysis of data which have been gathered from November 2005 until February 2006 through Internet survey amongst a large sample of individual donors in The Netherlands.

**Keywords:** Internet survey, research, charities, donors, stakeholder management, customer satisfaction, multivariate analysis, CBF certificate, the Netherlands.

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# Models of Logistic Support Systems

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## Abstract

We present an overview of some recent developments in the area of inventory planning and maintenance scheduling issues. The emphasis is on spare part inventory models, which authors divided into four main groups of models: models of optimal spare part inventory policy for system under PM, number of spare parts optimization models, storage reliability models, multi-echelon systems models.

**Keywords:** Logistic support system, maintenance modelling, inventory models, storage reliability models, procurement process.

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# Numerical Assessment of Simplified Formulas for Electrostatic Simulation and Design of Micro-Electro-Mechanical Systems (MEMS)

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## **Abstract**

The design procedures of micro-electro-mechanical systems (MEMS) can be strongly dependent on the accurate evaluation of global quantities related to the electrostatic fields. In particular, the capacitance and the electrostatic force play often an important role in the design of micro-machines. In order to accelerate the design process, it is customary to adopt simplified formulas which have been proposed for simple geometries. Nevertheless, in many cases it is necessary to improve the accuracy of computations. The main purpose of this paper is to provide some new investigations on the numerical evaluations of electrostatic quantities by means of the Finite Element Method (FEM), presenting some numerical results on realistic examples and comparing them to experimental outcomes.

**Keywords:** Reliability, electrostatic field, Micro-electro-mechanical systems (MEMS), Finite Element Method (FEM), numerical assessment, computation accuracy.

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# About Reliability Modelling of Electronic Components and Systems

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## Abstract

The general principles of reliability modelling for electronic components and systems are presented. The ‘Physics of Failure’ approach is discussed versus the ‘Statistical’ approach, the advantages and disadvantages of each approach being underlined. For electronic components, the ‘physical’ and ‘empirical’ models are compared, the role of failure analysis being emphasized in each case.

**Keywords:** Reliability, failure analysis, failure mechanisms, physics of failure, reliability modelling, electronic components, electronic systems.

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