

Article

## Real-time PCR Machine System Modeling and a Systematic Approach for the Robust Design of a Real-time PCR-on-a-Chip System

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**Abstract:** Chip-based DNA quantification systems are widespread, and used in many point-of-care applications. However, instruments for such applications may not be maintained or calibrated regularly. Since machine reliability is a key issue for normal operation, this study presents a system model of the real-time Polymerase Chain Reaction (PCR) machine to analyze the instrument design through numerical experiments. Based on model analysis, a systematic approach was developed to lower the variation of DNA quantification and achieve a robust design for a real-time PCR-on-a-chip system. Accelerated life testing was adopted to evaluate the reliability of the chip prototype. According to the life test plan, this proposed real-time PCR-on-a-chip system was simulated to work continuously for over three years with similar reproducibility in DNA quantification. This not only shows the robustness of the lab-on-a-chip system, but also verifies the effectiveness of our systematic method for achieving a robust design.

**Keywords:** DNA quantification reliability; robust design; system identification model; real-time PCR machine; real-time PCR on-a-chip

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### 1. Introduction

Wittwer *et al.* first began to develop real-time Polymerase Chain Reaction (PCR) machines in 1997 [1,2]. This type of instrument has an integrated fluorimeter to allow in-tube real-time analysis of DNA template samples. A rise in fluorescence of the signal of each cycle indicates amplification. The ability

# The Systematic Approach To Machine Design

**Gerhard Pahl, Wolfgang Beitz**



## **The Systematic Approach To Machine Design:**

**Engineering Design** Gerhard Pahl, W. Beitz, Jörg Feldhusen, Karl-Heinrich Grote, 2007-08-06 Engineering design must be carefully planned and systematically executed. In particular, engineering design methods must integrate the many different aspects of designing and the priorities of the end user. *Engineering Design* 3rd edition describes a systematic approach to engineering design. The authors argue that such an approach, applied flexibly and adapted to a particular task, is essential for successful product development. The design process is first broken down into phases and then into distinct steps, each with its own working methods. The third edition of this internationally recognised text is enhanced with new perspectives and the latest thinking. These include extended treatment of product planning, new sections on organisation structures, simultaneous engineering, leadership and team behaviour, and updated chapters on quality methods and estimating costs. New examples have been added and existing ones extended with additions on design to minimise wear, design for recycling, mechanical connections, mechatronics, and adaptronics. *Engineering Design* 3rd edition is translated and edited from the sixth German edition by Ken Wallace, Professor of Engineering Design at the University of Cambridge, and Lucienne Blessing, Professor of Engineering Design and Methodology at the Technical University of Berlin. Topics covered include fundamentals, product planning and product development, task clarification and conceptual design, embodiment design, rules, principles, and guidelines, mechanical connections, mechatronics, and adaptronics, size ranges and modular products, quality methods, and cost estimation methods. The book provides a comprehensive guide to successful product development for practising designers, students, and design educators. Fundamentals are emphasised throughout, and short-term trends are avoided, so the approach described provides a sound basis for design courses that help students move quickly and effectively into design practice.

Engineering Design Gerhard Pahl, Wolfgang Beitz, 1984      **A Systematic Approach to Mechanical Design** Kjell Andersson, 1990      *The Systems Approach to Management* American Institute of Aeronautics and Astronautics. Technical Information Service, 1969      Mechanical Design and Manufacturing of Electric Motors Wei Tong, 2022-05-19 This Second Edition of *Mechanical Design and Manufacturing of Electric Motors* provides in-depth knowledge of design methods and developments of electric motors in the context of rapid increases in energy consumption and emphasis on environmental protection alongside new technology in 3D printing, robots, nanotechnology, and digital techniques, and the challenges these pose to the motor industry. From motor classification and design of motor components to model setup and material and bearing selections, this comprehensive text covers the fundamentals of practical design and design-related issues, modeling and simulation, engineering analysis, manufacturing processes, testing procedures, and performance characteristics of electric motors today. This Second Edition adds three brand-new chapters on motor breaks, motor sensors, and power transmission and gearing systems. Using a practical approach with a focus on innovative design and applications, the book contains a thorough discussion of major components and subsystems such as rotors, shafts, stators, and frames, alongside various cooling

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*Machine Design* Waterways Experiment Station (U.S.),1952     *Engineering Design* Robert Matousek,1963

Computer-Based Design Tamir Shahin,2002-08-30 A collection of papers from a conference held at Kings College London Computer based Design focuses on all areas of design using computational methods and examines how all these individual tools can be integrated to produce a coherent design process This volume also covers areas of manual design methods and modelling that are vital to the continuing development and evolution of the computer aided design process TOPICS COVERED INCLUDE Product design and modelling Design process Decision making models Computer assisted design systems Computer assisted conceptual design Computer assisted detailed design Computer assisted design for manufacture Design knowledge manipulation Engineering change Engineering design issues Fuzzy design Computer aided design Industrial applications of design Advanced design applications Computational fluid dynamics Computer based Design provides an excellent opportunity for an update on the latest techniques and developments from concept to advanced application in the design arena

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