



# EMBEDDED SYSTEMS AN INTEGRATED APPROACH

LYLA B. DAS

*Embedded Systems: An Integrated Approach* is exclusively designed for the undergraduate courses in electronics and communication engineering as well as computer science engineering. This book is well-structured and covers all the important processors and their applications in a sequential manner. It begins with a highlight on the building blocks of the embedded systems, moves on to discuss the software aspects and new processors, and finally concludes with an insightful study of important applications. This book also contains an entire part dedicated to the ARM processor, its software requirements and the programming languages. Relevant case studies and examples supplement the main discussions in the text.

### FEATURES

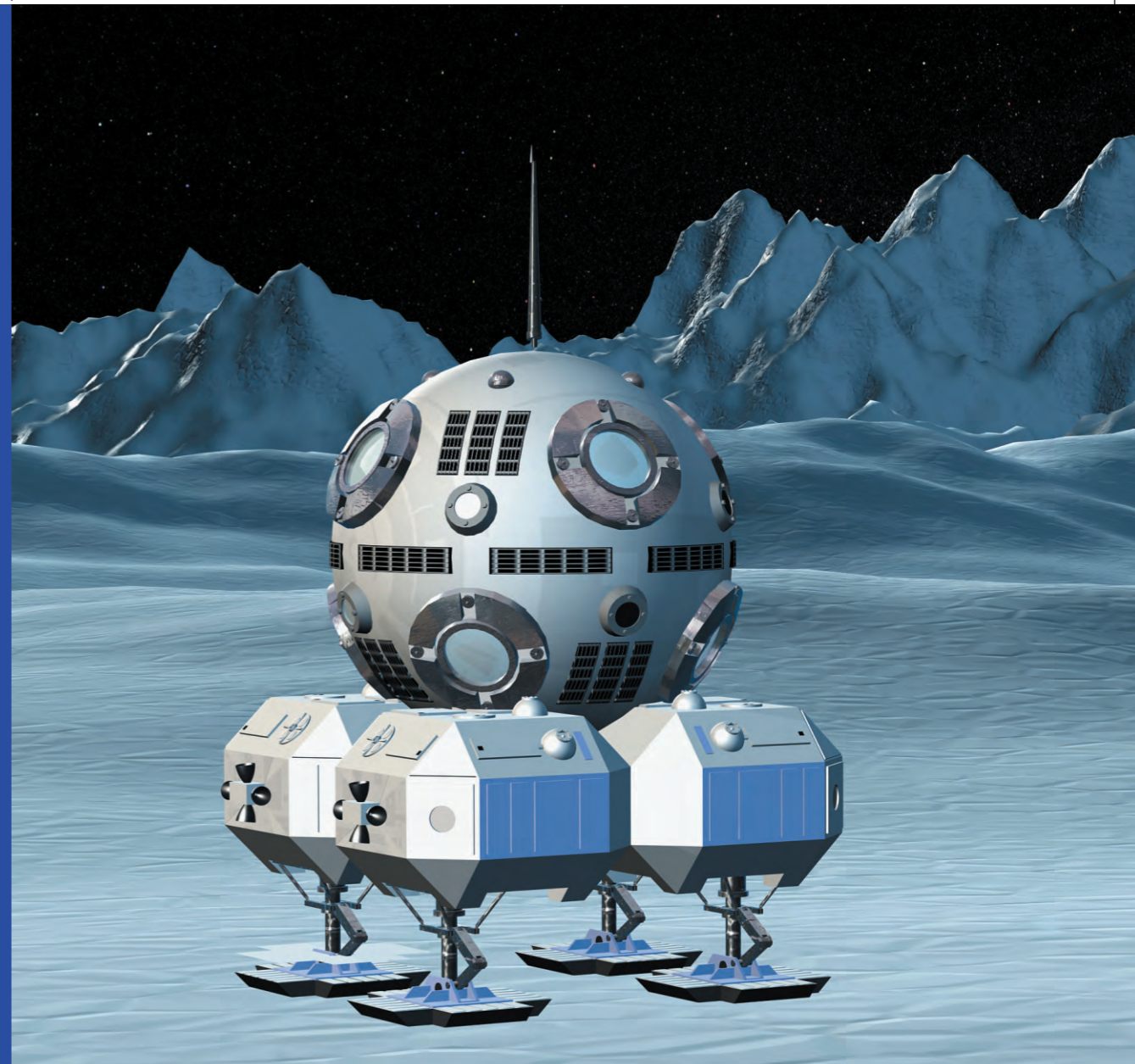
- Extensive coverage of the embedded hardware including details of processors, sensors, actuators, buses and system development
- Comprehensive discussion on the architecture and programming of the ARM, 8051 and PSoC microcontrollers
- Analysis on the concepts of operating systems with a special emphasis on the real-time operating systems
- Step-by-step solutions provided for programming examples in Assembly and C
- Detailed coverage on DSP processors, ASIC design, product life-cycle management and software development tools
- An entire chapter on the important applications of the embedded systems

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