

## **Developing Linux Device Drivers - LFD430**

- 1. Introduction
- 2. Preliminaries
- 3. Device Drivers
- 4. Modules and Device Drivers
- 5. Memory Management and Allocation
- 6. Character Devices
- 7. Kernel Features
- 8. Transferring Between User and Kernel Space
- 9. Interrupts and Exceptions
- 10. Timing Measurements
- 11. Kernel Timers
- 12. ioctls
- 13. Unified Device Model and sysfs
- 14. Firmware
- 15. Sleeping and Wait Queues
- 16. Interrupt Handling: Deferrable Functions and User Drivers
- 17. Hardware I/O
- 18. PCI
- 19. Platform Drivers\*\*
- 20. Device Trees\*\*
- 21. Direct Memory Access (DMA)
- 22. Network Drivers I: Basics
- 23. Network Drivers II: Data Structures
- 24. Network Drivers III: Transmission and Reception
- 25. Network Drivers IV: Selected Topics
- 26. USB Drivers
- 27. Power Management
- 28. Block Drivers