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FLOOR SAN FRANCISCO CA UNITED STATES ISBN 978 0 12 374957 4 PUBLISHED 07 JULY 2009 PAGES 576 AVAILABLE AT AMAZON SAVE TO BINDER EXPORT CITATION BIBLIOMETRICS THE HEART OF THE COMPUTER SYSTEMS LITERATURE IS FOUND IN PUBLISHED PAPERS TWO OF THE BEST SOURCES ARE ASSOCIATION FOR COMPUTING MACHINERY ACM PUBLICATIONS THE JOURNAL ACM TRANSACTIONS ON COMPUTER SYSTEMS TOCS AND THE BI ANNUAL SERIES OF CONFERENCE PROCEEDINGS THE ACM SYMPOSIUM ON OPERATING SYSTEMS PRINCIPLES SOSP THE BEST DESIGN PRINCIPLES APPLICABLE TO SPECIFIC AREAS OF COMPUTER SYSTEMS ATOMICITY GOLDEN RULE OF ATOMICITY NEVER MODIFY THE ONLY COPY COORDINATION ONE WRITER PRINCIPLE IF EACH VARIABLE HAS ONLY ONE WRITER COORDINATION IS SIMPLER DURABILITY THE DURABILITY MANTRA SOE YCSPRINCIPOFCOMP STANFORD SCHOOL OF ENGINEERING PRINCIPLES OF COMPUTING TEACHES THE ESSENTIAL IDEAS OF COMPUTER SCIENCE FOR A ZERO PRIOR EXPERIENCE AUDIENCE COMPUTERS CAN APPEAR VERY COMPLICATED BUT IN REALITY COMPUTERS WORK WITHIN JUST A FEW SIMPLE PATTERNS SUMMARY THIS ADVANCED GRADUATE COURSE TEACHES THE KEY DESIGN PRINCIPLES UNDERLYING SUCCESSFUL COMPUTER AND COMMUNICATION SYSTEMS AND SHOWS HOW TO SOLVE REAL PROBLEMS WITH IDEAS TECHNIQUES AND ALGORITHMS FROM OPERATING SYSTEMS NETWORKS DATABASES PROGRAMMING LANGUAGES AND COMPUTER ARCHITECTURE CONTENT CS 110 PRINCIPLES OF COMPUTER SYSTEMS COURSE INFORMATION THIS HANDOUT WAS ADAPTED FROM JERRY CAIN S SPRING 2018 OFFERING INSTRUCTOR RYAN EBERHARDT EMAIL REBS AT CS DOT STANFORD OFFICE HOURS TBA LECTURES MONDAY WEDNESDAY FRIDAY 10 11 20AM PACIFIC TIME ON ZOOM UNITS 5 UNITS 1 THE NETWORK AS A SYSTEM AND AS A SYSTEM COMPONENT 2 FAULT TOLERANCE RELIABLE SYSTEMS FROM UNRELIABLE COMPONENTS 3 ATOMICITY ALL OR NOTHING AND BEFORE OR AFTER 4 CONSISTENCY 5 INFORMATION SECURITY 6 ANCILLARY MATERIALS BACK MATTER DESCRIPTION THIS COURSE TEACHES STUDENTS THE DESIGN IMPLEMENTATION AND EVALUATION OF COMPUTER SYSTEMS INCLUDING OPERATING SYSTEMS NETWORKING AND DISTRIBUTED SYSTEMS THE COURSE WILL TEACH STUDENTS TO EVALUATE THE PERFORMANCE AND STUDY THE DESIGN CHOICES OF EXISTING SYSTEMS THIS TEXTBOOK AN INTRODUCTION TO THE PRINCIPLES AND ABSTRACTIONS USED IN THE DESIGN OF COMPUTER SYSTEMS IS AN OUTGROWTH OF NOTES WRITTEN FOR 6 033 COMPUTER

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