Object-Oriented Software Engineering (CS350)

Course Notes

Dr. William Joel, Editor

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Course Notes: Object-Oriented Software Engineering (CS350) William Joel,2012-08-26 Course notes Object Oriented Software Engineering CS350 **Object-Oriented Software** Luiz Fernando Capretz,1996-09-01 This is a textbook for a course in object oriented software engineering at advanced undergraduate and graduate levels as well as for software engineers It contains more than 120 exercises of diverse complexity The book discusses fundamental concepts and terminology on object oriented software development assuming little background on software engineering and emphasizes design and maintenance rather than programming It also presents up to date and easily understood methodologies and puts forward a software life cycle model which explicitly encourages reusability during software development and maintenance

Object Oriented Software Engineering Object Oriented Software Engineering,2024-11-08 Object Oriented Software Engineering is a definitive resource that offers a comprehensive exploration of the principles methodologies and practical applications of object oriented approaches in software engineering Authored by Ms Sonia Wadhwa Mr Prince Kumar Sahu Mr Vishnu Prasad Verma Mr V Ramu and Mr K Surendra Reddy this book is designed for students educators and professionals in the field of computer science and engineering It begins with an introduction to software engineering and the importance of modularity abstraction and reusability providing a strong foundation for understanding object oriented design The book covers key topics such as software process models agile development methodologies requirement analysis and the use of Unified Modeling Language UML for object modeling Readers are guided through various stages of software engineering including software design testing maintenance and project management with a focus on real world applications and case studies Advanced concepts such as design patterns architectural styles and object oriented frameworks like the Unified Process UP and Rational Unified Process RUP are explored in depth Practical examples and detailed explanations help bridge the gap between theoretical knowledge and industrial practices Published by Quill Tech Publications in November 2024 this book is an invaluable resource for understanding how object oriented methods can address complex software development challenges Whether developing small scale applications or managing large enterprise systems Object Oriented Software Engineering equips readers with the tools and techniques needed to design robust scalable and maintainable software solutions *Object-oriented Software Engineering* George Wilkie,1993 Addresses critical software engineering issues showing how an object oriented approach can provide much improved solutions over other methods Designed as a technology tool **OBJECT-ORIENTED SOFTWARE ENGINEERING** YOGESH SINGH,RUCHIKA MALHOTRA,2012-03-05 This comprehensive and well written book presents the fundamentals of object oriented software engineering and discusses the recent technological developments in the field It focuses on object oriented software engineering in the context of an overall effort to present object oriented concepts techniques and models that can be applied in software estimation analysis design testing and quality improvement It applies unified modelling language notations to a

series of examples with a real life case study The example oriented approach followed in this book will help the readers in understanding and applying the concepts of object oriented software engineering quickly and easily in various application domains This book is designed for the undergraduate and postgraduate students of computer science and engineering computer applications and information technology KEY FEATURES Provides the foundation and important concepts of object oriented paradigm Presents traditional and object oriented software development life cycle models with a special focus on Rational Unified Process model Addresses important issues of improving software quality and measuring various object oriented constructs using object oriented metrics Presents numerous diagrams to illustrate object oriented software engineering models and concepts Includes a large number of solved examples chapter end review questions and multiple choice questions along with their answers   Object-Oriented Analysis and Design with Applications Grady Booch,Robert Maksimchuk,Michael Engle,Jim Conallen,Kelli Houston,Bobbi Young Ph.D.,2007-04-30 Object Oriented Design with Applications has long been the essential reference to object oriented technology which in turn has evolved to join the mainstream of industrial strength software development In this third edition the first revision in 13 years readers can learn to apply object oriented methods using new paradigms such as Java the Unified Modeling Language UML 2 0 and NET The authors draw upon their rich and varied experience to offer improved methods for object development and numerous examples that tackle the complex problems faced by software engineers including systems architecture data acquisition cryptoanalysis control systems and Web development They illustrate essential concepts explain the method and show successful applications in a variety of fields You ll also find pragmatic advice on a host of issues including classification implementation strategies and cost effective project management New to this new edition are An introduction to the new UML 2 0 from the notation s most fundamental and advanced elements with an emphasis on key changes New domains and contexts A greatly enhanced focus on modeling as eagerly requested by readers with five chapters that each delve into one phase of the overall development lifecycle Fresh approaches to reasoning about complex systems An examination of the conceptual foundation of the widely misunderstood fundamental elements of the object model such as abstraction encapsulation modularity and hierarchy How to allocate the resources of a team of developers and mange the risks associated with developing complex software systems An appendix on object oriented programming languages This is the seminal text for anyone who wishes to use object oriented technology to manage the complexity inherent in many kinds of systems Sidebars Preface Acknowledgments About the Authors Section I Concepts Chapter 1 Complexity Chapter 2 The Object Model Chapter 3 Classes and Objects Chapter 4 Classification Section II Method Chapter 5 Notation Chapter 6 Process Chapter 7 Pragmatics Chapter 8 System Architecture Satellite Based Navigation Chapter 9 Control System Traffic Management Chapter 10 Artificial Intelligence Cryptanalysis Chapter 11 Data Acquisition Weather Monitoring Station Chapter 12 Web Application Vacation Tracking System Appendix A Object Oriented Programming Languages Appendix B

Further Reading Notes Glossary Classified Bibliography Index   **A First Course in Object-oriented Software Engineering** Bimlesh Wadhwa,Yuen Jien Soo,Damith C. Rajapakse,2010   **Object-oriented Software** Miriam A. M. Capretz,1996   **Object-oriented programming using SAS/AF software** ,1995   Object Oriented Software Engineering Deven N. Shah,G.P. Bherde,2010-04-16   **Classical and Object-oriented Software Engineering with UML and C++** Stephen R. Schach,1999 The Universal Modeling Language UML has become an industry standard in software engineering In this text it is used for object oriented analysis and design as well as when diagrams depict objects and their interrelationships   EBOOK: Object-Oriented Software Engineering: Practical Software Development Using UML and Java LETHBRIDGE, TIM,2004-12-16 EBOOK Object Oriented Software Engineering Practical Software Development Using UML and Java   **Object-oriented Software Engineering** Stephen R. Schach,2008   *Object-Oriented and Classical Software Engineering* Stephen Schach,2010 Building on seven strong editions the eighth edition maintains the organization and approach for which Object Oriented and Classical Software Engineering is known while making significant improvements and additions to content as well as problems and projects The revisions for the eighth edition make the text easier to use in a one semester course Integrating case studies to show the object oriented approach to software engineering Object Oriented and Classical Software Engineering 8 e presents an excellent introduction to software engineering fundamentals covering both traditional and ob   Object-Oriented Software Engineering: Practical Software Development Lethbridge,2002-04-01

   Essays on Object-oriented Software Engineering Edward V. Berard,1993 An exploration of object oriented software engineering methodologies documentation techniques and testing strategies based on real world experience in the engineering of large object oriented software applications   **Principles of Object-oriented Software Development** Anton Eliëns,1995 Provides full coverage of object oriented technology paying equal attention to the underlying theory and to programming practice The author shows object oriented concepts at all stages of the software life cycle Separate tutorial sections on C Smalltalk and Eiffel are included   *Object-oriented Software Engineering* George Wilkie,1993

   Object-oriented and Classical Software Engineering Stephen R. Schach,2005   *Object-oriented Software Engineering with UML* Roger Y. Lee,2019 The object oriented paradigm supplements traditional software engineering by providing solutions to common problems such as modularity and reusability Objects can be written for a specific purpose acting as an encapsulated black box API that can work with other components by forming a complex system This book provides a comprehensive overview of the many facets of the object oriented paradigm and how it applies to software engineering Starting with an in depth look at objects the book naturally progresses through the software engineering life cycle and shows how object oriented concepts enhance each step Furthermore it is designed as a roadmap with each chapter preparing the reader with the skills necessary to advance the project This book should be used by anyone interested in learning about object oriented software engineering including students and seasoned developers Without overwhelming the

reader this book hopes to provide enough information for the reader to understand the concepts and apply them in their everyday work After learning about the fundamentals of the object oriented paradigm and the software engineering life cycle the reader is introduced to more advanced topics such as web engineering cloud computing agile development and big data In recent years these fields have been rapidly growing as many are beginning to realize the benefits of developing on a highly scalable automated deployment system Combined with the speed and effectiveness of agile development legacy systems are beginning to make the transition to a more adaptive environment Core Features 1 Provides a thorough exploration of the object oriented paradigm 2 Provides a detailed look at each step of the software engineering life cycle 3 Provides supporting examples and documents 4 Provides a detailed look at emerging technology and standards in object oriented software engineering

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