# **UI-UX Design**

* Figma Resource Library
* YouTube Channels
* The Fundamentals of Graphics Design, Gavin Ambrose
* The Non-Designer’s Design Book: Design and Typographic Principles for the Visual Novice, Robin Williams
* Designing the User Interface: Strategies for Effective Human-Computer Interaction, Shneiderman, Plaisant
* Interface Design, An Introduction to Visual Communication in UI Design
* Designing Interface: Patterns for Effective Interaction Design, Jenifer Tidwell
* The Elements of User Experience: User-Centered Design for The Web and Beyond, Jesse James Garrett
* Killer UX Design, Jodie Moule
* The Guide to UX Design Process and Documentation, Dominik Pacholczyk
* About Face: The Essentials of Interaction Design, Alan Cooper, Robert Reimann, David Cronin

# **Ordinary Differential Equations**

## **Ordinary Differential Equations: Reference-1**

|  |  |
| --- | --- |
|  | **An Introduction to Ordinary Differential Equations** |
|  | **Preliminaries** |
| 01 | Introduction |
| 02 | Complex Numbers |
| 03 | Functions |
| 04 | Polynomials |
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| 13 | The Equation y` + ay = b(x) |
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| 18 | Linear Dependence and Independence |
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| 20 | The Non-Homogeneous Equation of Order Two |
| 21 | The Homogeneous Equation of Order n |
| 22 | Initial Value Problems for n-th Order Equations |
| 23 | Equations with Real Constants |
| 24 | The Non-Homogeneous Equations of Order n |
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| 30 | The Wronskian and Linear Independence |
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| 39 | Second Order Equations with Regular Singular Points – The General Case |
| 40 | A Convergence Proof |
| 41 | The Exceptional Cases |
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| 43 | The Bessel Equation (Continued) |
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| 46 | Equations with Variables Separated |
| 47 | Exact Equations |
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| 49 | The Lipschitz Condition |
| 50 | Convergence of the Successive Approximations |
| 51 | Non-Local Existence of Solutions |
| 52 | Approximations to, and Uniqueness of, Solutions |
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## **Ordinary Differential Equations: Reference-2**

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|  | **Ordinary Differential Equations: An Elementary Textbook for Students of Mathematics and Engineering** |
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| 01 | How Differential Equations Originate |
| 06 | The Meaning of the Terms Set and Functions. Implicit and Elementary Functions – Topics 5 |
| 09 | The Differential Equations – Topics 3 |
| 12 | The General Solution of a Differential Equation – Topics 3 |
| 14 | Direction Field – Topics 2 |
|  | **Special Types of Differential Equations of the First Order** |
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| 127 | Series Solution of y` = f(x,y) |
| 130 | Series Solution of a Nonlinear Differential Equations of Order Greater Than One – Topics 3 |
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| 135 | The Legendre Differential Equations. – Topics 3 |
| 139 | The Bassel Differential Equation. – Topics 4 |
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| 144 | An Improvement of the Polygonal Starting Method |
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| 154 | Milne’s Method of Finding an Approximate Numerical Solution of y` = f(x, y) |
| 158 | General Comments. Selecting h. Reducing h. Summary and an Example – Topics 4 |
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| 162 | Perturbation Method. Second Order Equation. |
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|  | **Existence and Uniqueness Theorems for A System of First Order Differential Equations** |
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| 175 | Determinants. Wronskians – Topics 2 |
| 176 | Theorems About Wronskians and the Linear Independence of a Set of Solutions of a Homogeneous |
| 177 | Existence and Uniqueness Theorem for the Linear Differential Equation of Order n |

# **System Analysis and Design**

## **System Analysis and Design: Reference-1**

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| 01 | **An Overview of Part One** |
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| 03 | Introduction |
| 04 | A Modern Approach to Systems Analysis and Design |
| 05 | Developing Information Systems and the Systems Development Life Cycle |
| 06 | The Heart of the Systems Development Process – Topics 1 |
| 09 | Agile Methodologies – Topics 3 |
| 10 | Object-Oriented Analysis and Design |
| 11 | Our Approach to Systems Development |
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|  | **The Origins of Software** |
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| 18 | Systems Acquisition – Topics 4 |
| 19 | Reuse |
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| 23 | Pine Valley Furniture Company Background |
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| 30 | Representing and Scheduling Project Plans – Topics 3 |
| 33 | Using Project Management Software – Topics 3 |
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| 47 | Identifying and Selecting Systems Development Projects – Topics 2 |
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| 55 | Initiating and Planning Systems Development Projects |
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| 61 | Building and Reviewing the Baseline Project Plan – Topics 2 |
| 62 | Electronic Commerce Applications: Initiating and Planning Systems Development Projects |
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| 74 | Contemporary Methods for Determining System Requirements – Topics2 |
| 76 | Radical Methods for Determining System Requirements – Topics 2 |
| 79 | Requirements Determination Using Agile Methodologies – Topics 3 |
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| 124 | Introduction to E-R Modeling – Topics 5 |
| 129 | Conceptual Data Modeling and the E-R Model – Topics 5 |
| 130 | Representing Super-types and Sub-types |
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| 135 | Role of Packaged Conceptual Data Models: Database Patterns – Topics 3 |
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| 164 | Merging Relations – Topics 2 |
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| 310 | Electronic Commerce Application: Designing Interfaces & Dialogues for Pine Value Furniture’s… - Topics 3 |
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| 321 | Cloud Computing – Topics 4 |
| 324 | Designing Internet Systems – Topics 3 |
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| 345 | Training and Supporting Users – Topics 2 |
| 347 | Organizational Issues in Systems Implementation – Topics 2 |
| 350 | Electronic Commerce Application: System Implementation and Operation for Pine… - Topics 3 |
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## **System Analysis and Design: Reference-2**

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|  | **System Analysis and Design with UML Version 2.0: An Object-Oriented Approach** |
|  | **Introduction to Systems Analysis and Design** |
| 01 | Introduction |
| 05 | The Systems Development Life Cycle – Topics 4 |
| 09 | Systems Development Methodologies – Topics 4 |
| 13 | Object-Oriented Systems Analysis and Design (OOSAD) – Topics 4 |
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| 164 | Applying The Concepts at CD Selection |
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| 177 | Optimizing RDMBS-Based Object Storage – Topics 3 |
| 178 | Nonfunctional Requirements and Data Management Layer Design |
| 179 | Designing Data Access and Manipulation Classes |
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# **Software Project Management**

## **Software Project Management: Reference-1**

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| 02 | Trust Your Team |
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| 61 | Use the Schedule to Manage Commitments |
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