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this easy to read textbook reference presents an essential guide to object oriented c programming for scientific computing with a practical focus on learning by example the theory is supported by numerous exercises features provides a specific focus on the application of c to scientific computing including parallel computing using mpi stresses the importance of a clear programming style to minimize the introduction of errors into code presents a practical introduction to procedural programming in c covering variables flow of control input and output pointers functions and reference variables exhibits the efficacy of classes highlighting the main features of object orientation examines more advanced c features such as templates and exceptions supplies useful tips and examples throughout the text together with chapter ending exercises and code available to download from springer

the tenth edition of this bestselling text includes examples in more detail and more applied exercises both changes are aimed at making the material more relevant and accessible to readers kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems it goes into the following topics at great depth differential equations partial differential equations fourier analysis

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