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Titolo	Green Software Engineering : Exploring Green Technology for Sustainable IT Solutions // Santiago Fontanarrosa
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Descrizione fisica	1 online resource
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Craft sustainable software and reduce digital environmental impact with practical strategies and principles</p> <p><b>Key Features</b></p> <ul style="list-style-type: none"> <li>Discover practical strategies for developing energy-efficient digital solutions across various domains</li> <li>Learn effective strategies to measure and mitigate the environmental impact of digital solutions</li> <li>Explore real-world examples of integrating sustainable design patterns into the software development cycle</li> <li>Purchase of the print or Kindle book includes a free PDF eBook</li> </ul> <p><b>Book Description</b></p> <p>Embark on a transformative journey toward sustainable software engineering, exploring the vital intersection of technology and environmental responsibility. Authored by Santiago Fontanarrosa, a Green Software Foundation member with 20+ years in software engineering, this book explores practical strategies and use cases to help you assess and mitigate digital product environmental impact. Through real-world examples and hands-on experiences, you'll gain the skills you need to craft environmentally responsible solutions aligned with green software engineering principles. As you progress, you'll assess and optimize software architecture for sustainability within a sustainable software delivery framework schema. Beyond technical insights, the book delves into ethical implications and societal impacts, fostering a deeper understanding of the broader implications of technology usage. As you approach the conclusion, you'll have gained the ability to comprehend, measure, and craft energy-efficient digital solutions aligned with green</p>

software engineering principles. What you will learn Optimize software and infrastructure for sustainability Integrate green software principles into the Agile Software Development Life Cycle Explore emerging trends and technologies shaping the future of green software engineering Reflect on tech ethics as well as address societal and environmental concerns Implement industry standards and reporting methodologies for software emissions Measure digital operations' environmental footprint with methodologies Mitigate software's ecological impact with strategic approaches Who this book is for If you're a software developer, software architect, or IT professional who wants to integrate sustainability into your organization, this book is for you. Whether you're a seasoned professional or a sustainability-focused tech enthusiast, this book provides the knowledge and tools you need to drive positive change in the software industry. A basic understanding of IT concepts and programming is recommended, and familiarity in modern digital technologies like cloud computing will also be helpful.

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