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Nota di contenuto	Part I. Forest Health and Mortality: -- 1. The past as key to the future: a new perspective on forest health / S.A. Teale and J.D. Castello -- 2. Mortality: the essence of a healthy forest / L. Zhang, B.D. Rubin and P. D. Manion -- 3. How do we do it, and what does it mean?: forest health case studies / J.D. Castello, S.A. Teale and J.A. Cale -- Part II. Forest Health and its Ecological Components: -- 4. Regulators and terminators: the importance of biotic factors to a healthy forest / S.A. Teale and J.D. Castello -- 5. Alien invasions: the effects of introduced species on forest structure and function / D. Parry and S.A. Teale -- 6. Out of sight, underground: forest health, edaphic factors, and mycorrhizae / R.D. Briggs and T.R. Horton -- 7. Earth, wind, and fire: abiotic factors and the impacts of global environmental change on

forest health / J.E. Lundquist [and others] -- Part III. Forest Health and the Human Dimension: -- 8. Silviculture, forest management, and forest health: an axe does not a forester make / C.A. Nowak, R.H. Germain and A.P. Drew -- 9. Biodiversity, conservation, and sustainable timber harvest: can we have it all? / S.P. Campbell, D.A. Patrick and J.P. Gibbs -- 10. Seeing the forest for the trees: forest health monitoring / M. Fierke, D. Nowak and R. Hofstetter -- 11. What did we learn, and where does it leave us?: concluding thoughts / J.D. Castello and S.A. Teale.

Sommario/riassunto

Forest Health: An Integrated Perspective is the first book to define an ecologically rational, conceptual framework that unifies and integrates the many sub-disciplines that comprise the science of forest health and protection. This new global approach applies to boreal, temperate, tropical, natural, managed, even-aged, uneven-aged and urban forests, as well as plantations. Readers of the text can use real datasets to assess the sustainability of four forests around the world. Datasets for the case studies are at www.cambridge.org/9780521766692, and the text provides stepwise instructions for performing the calculations in Microsoft Excel. Readers can follow along as the editors perform the same calculations and interpret the results. Elevating forest health from a fuzzy concept to an ecologically sound paradigm, this is essential reading for undergraduate and graduate students and professionals interested in forest health, protection, entomology, pathology and ecology.
