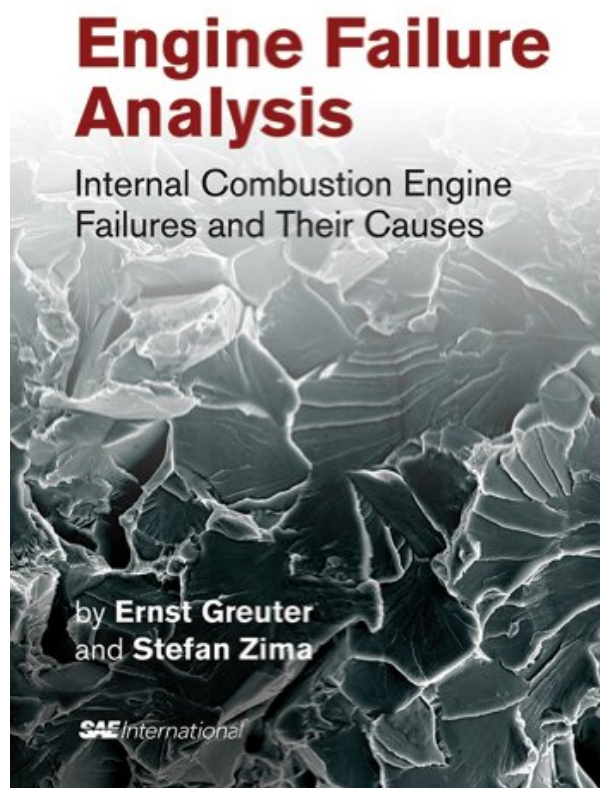


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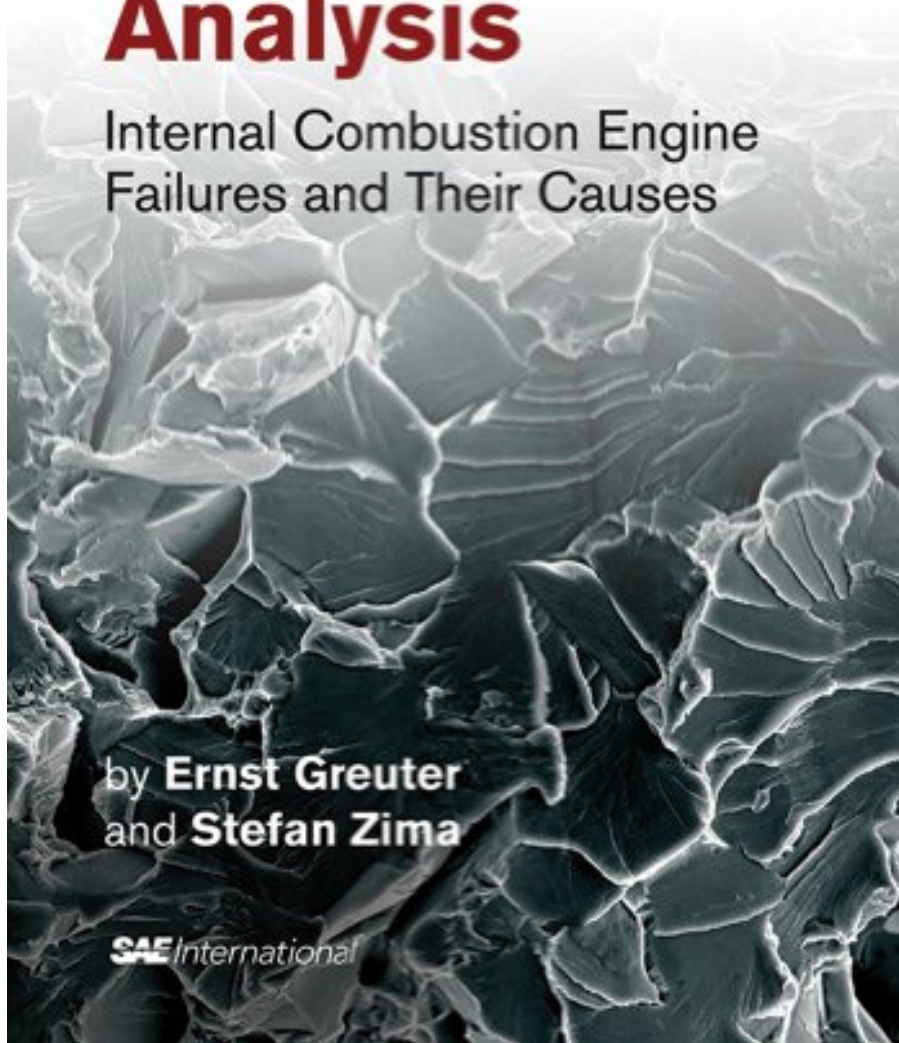


Engine Failure Analysis

Internal Combustion Engine Failures and Their Causes

by **Ernst Greuter**
and **Stefan Zima**

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About the Author

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Engine failures result from a complex set of conditions, effects, and situations. To understand why engines fail and remedy those failures, one must understand how engine components are designed and manufactured, how they function, and how they interact with other engine components. To this end, this book examines how engine components are designed and how they function, along with their physical and technical properties. Translated from a popular German reference work, this English edition sheds light on determining engine failure and remedies. The authors present a selection of engine failures, investigate and evaluate why they failed, and provide guidance on how to prevent such failures. A large range of possible engine failures is presented in a comprehensive, readily understandable manner, free of manufacturer bias. The scope of engines covered includes general-purpose engines found in heavy commercial vehicles, railway locomotives and vehicles, electrical generators, prime movers, and marine engines. Such engines are technical precursors to automotive engines. This book is for all who deal with engine failures: those who work in repair shops, shipyards, engineering consultancies, insurance companies and technical oversight organizations, as well as R&D departments at engine and component manufacturers. Researchers, academics, and students will learn how even the theoretically impossible can and will happen.

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An Excellent Resource

By David A. Nelson

An excellent resource for anyone working with maintenance and reliability of IC engines. Well organized, concise and practical in explanations.

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Very good, but even more detail is needed for diagnostic guidance

By Irfan A. Alvi

This is a relatively authoritative book on engine failure analysis which is well written and covers a lot of ground in its 568 pages. The engineering expertise and practical experience of the authors is quite evident. While the book covers a large number of failure modes for a large number of components, with accompanying b/w photos, where I find the book a bit lacking is in providing sufficiently detailed guidance for diagnosing the cause(s) of particular failures; for each failure mode, bullet-point lists of "possible causes" are provided, but there isn't enough depth to determine which of these possible causes were most likely. What may be needed is an even larger book - which would indeed become very large. Nevertheless, this book does provide a solid starting point for performing engine failure analysis.

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Nice Book

By maurosmf

Very useful book. The only problem is that the pictures are black&white. It could be better in color. Quality of the failure modes are nice.

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