



FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems

Erik Hollnagel

Download now

[Click here](#) if your download doesn't start automatically

FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems

Erik Hollnagel

FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems Erik Hollnagel

Since the first book was published in 2006, resilience engineering has consistently argued that safety is more than the absence of failures. Several book chapters and papers have illustrated the advantage in going behind 'human error' and beyond the failure concept, and various complicated accidents have accentuated the need for it. But there has not yet been a comprehensive method for doing so; the Functional Resonance Analysis Method (FRAM) fulfils that need. Whereas commonly used methods explain events by interpreting them in terms of an already existing model, the FRAM is used to produce a model of what is needed for everyday performance to go right. This can then be applied to explain specific events, by showing how functions can be coupled and how the variability of everyday performance sometimes may produce unexpected and out-of-scale outcomes - either good or bad. The FRAM is based on four principles: equivalence of failures and successes, approximate adjustments, emergence, and functional resonance. Since the FRAM is a method rather than a model, it makes no assumptions about how the system under investigation is structured or organised, nor about possible causes and cause-effect relations. Instead of looking for specific failures and malfunctions, the FRAM explains outcomes in terms of functional coupling and resonance. This book presents a detailed and tested method that can be used to model how complex and dynamic socio-technical systems work, and understand both why things sometimes go wrong but also why they normally succeed.



[Download FRAM: The Functional Resonance Analysis Method: Mo ...pdf](#)



[Read Online FRAM: The Functional Resonance Analysis Method: ...pdf](#)

Download and Read Free Online FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems Erik Hollnagel

From reader reviews:

Lois Cox:

Do you have favorite book? For those who have, what is your favorite's book? Reserve is very important thing for us to be aware of everything in the world. Each reserve has different aim as well as goal; it means that reserve has different type. Some people experience enjoy to spend their time for you to read a book. These are reading whatever they have because their hobby will be reading a book. How about the person who don't like reading through a book? Sometime, person feel need book if they found difficult problem or exercise. Well, probably you will need this FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems.

Pat Swartz:

Within other case, little individuals like to read book FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems. You can choose the best book if you like reading a book. Given that we know about how is important the book FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems. You can add know-how and of course you can around the world by just a book. Absolutely right, due to the fact from book you can recognize everything! From your country until finally foreign or abroad you may be known. About simple factor until wonderful thing you could know that. In this era, we can easily open a book or maybe searching by internet system. It is called e-book. You can use it when you feel uninterested to go to the library. Let's examine.

Robert Sanders:

This FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems book is not ordinary book, you have after that it the world is in your hands. The benefit you have by reading this book is usually information inside this guide incredible fresh, you will get info which is getting deeper you actually read a lot of information you will get. This particular FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems without we understand teach the one who reading it become critical in pondering and analyzing. Don't end up being worry FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems can bring if you are and not make your case space or bookshelves' grow to be full because you can have it in your lovely laptop even telephone. This FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems having fine arrangement in word and also layout, so you will not truly feel uninterested in reading.

Sharon McMichael:

As we know that book is important thing to add our understanding for everything. By a e-book we can know everything we really wish for. A book is a list of written, printed, illustrated as well as blank sheet. Every year had been exactly added. This e-book FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems was filled regarding science. Spend your free time to add your knowledge

about your science competence. Some people has different feel when they reading a book. If you know how big selling point of a book, you can really feel enjoy to read a book. In the modern era like currently, many ways to get book you wanted.

Download and Read Online FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems Erik Hollnagel #I3V9NZDOQE5

Read FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems by Erik Hollnagel for online ebook

FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems by Erik Hollnagel Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems by Erik Hollnagel books to read online.

Online FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems by Erik Hollnagel ebook PDF download

FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems by Erik Hollnagel Doc

FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems by Erik Hollnagel Mobipocket

FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems by Erik Hollnagel EPub