The author has done his best to provide accurate and up-to-date information in this book

but he cannot guarantee that the information is correct or will fit your particular situation.

Live

screen?

Attach video

card power

inside PC

Reseat video

adapter, test in another

PC if possible.

No / Monitor Yes

tested?

system powe

"No power"

displayed?

Video

cable

´damaged

bent

Replace or

repair cable

connector.

Restore adapters, one at

a time, powering down and

unplugging power supply

after each change.

Freezes

bare

bones?

adapter or component

at a time, unplugging or

shutting off power strip

each time, until culprit

is detected.

BIOS

settings

change?

motherboard

battery, wait

RAM

certified,

one hour.

Check motherboard

manufacturer website.

swap or shuffle RAM.

Motherboard (

or power

on BIOS

Screen?

Replace fan.

Freezes

on boot?

´Can you`

access

BIOS?

a string of

Check both

cable.

adapters

CrossFire

only with

solo video

Motherboard,

CPU, RAM

Failure

Return to

Video Failure

diagnostic

Fan on`

heatsink

active?

Check fan

power point, may

not come on

instantly at boot.

ends of video

Proceed to

Supply

"No Signal"

displayed?

Onboard

video trumps

replacement

\adapter?

Disable with

motherboard

jumper, switch, or

BIOS setting.

Fan

noisy?

Proceed to

Video

Performance

chart.

CMOS

settings

√default?

Load defaults

from BIOS

safe settings.

Replace

heatsink if not

certified, check

power supply

ripple.

Proceed to

Prive Failure

chart

Temp

and voltage

stable?

Boots

from CD or

DVD?

Proceed to

Hard Drive

Performance

chart

The book is sold with the understanding that the publisher and the author are not

engaged in rendering professional or engineering services. If expert assistance is

Amazon.com or through your favorite bookstore in most countries

required, the services of a competent professional should be sought.

Monitor Yes

monitors

\HDTV?

card seated,

tested?

Check backlight on

LCD, test monitor on

good PC or laptop.

only with

new video

card?

Video

diagnostic

done?

Undo upgrade,

confirm exact CPU, RAM

model compatible with

motherboard.

seated

✓ More than

one beep?

Swap RAM

swap video.

CPU

swap

work?

Bad CPU, watch voltage and

LED on?

monitors in turn or

primary, try standard

monitor in place of

HDTV.

Reseat

RAM on

motherboard,

test in another

PC if possible.

Testing with a different

technology video

adapter (PCI vs PCI

Express) doesn't prove

the card slot is good

Try old adapter in

other system before

chucking.

Power Supply

RAM

reseated?

Reseat RAM,

minimize

number of

DIMMs, positive

lever lock.

Restore

factory

motherboard

settings.

Locate short,

binding, or swap

case.

COMPUTER

DIAGNOSTIC

FLOWCHARTS

Failure.

Power

diagnostic

done?

New build

CPU or RAM

upgrade?

Reseat CPU

and heatsink.

Default

motherboard

Runs on

bench?

memory

Video Failure

Check monitor

power source. Make

sure cord is fully

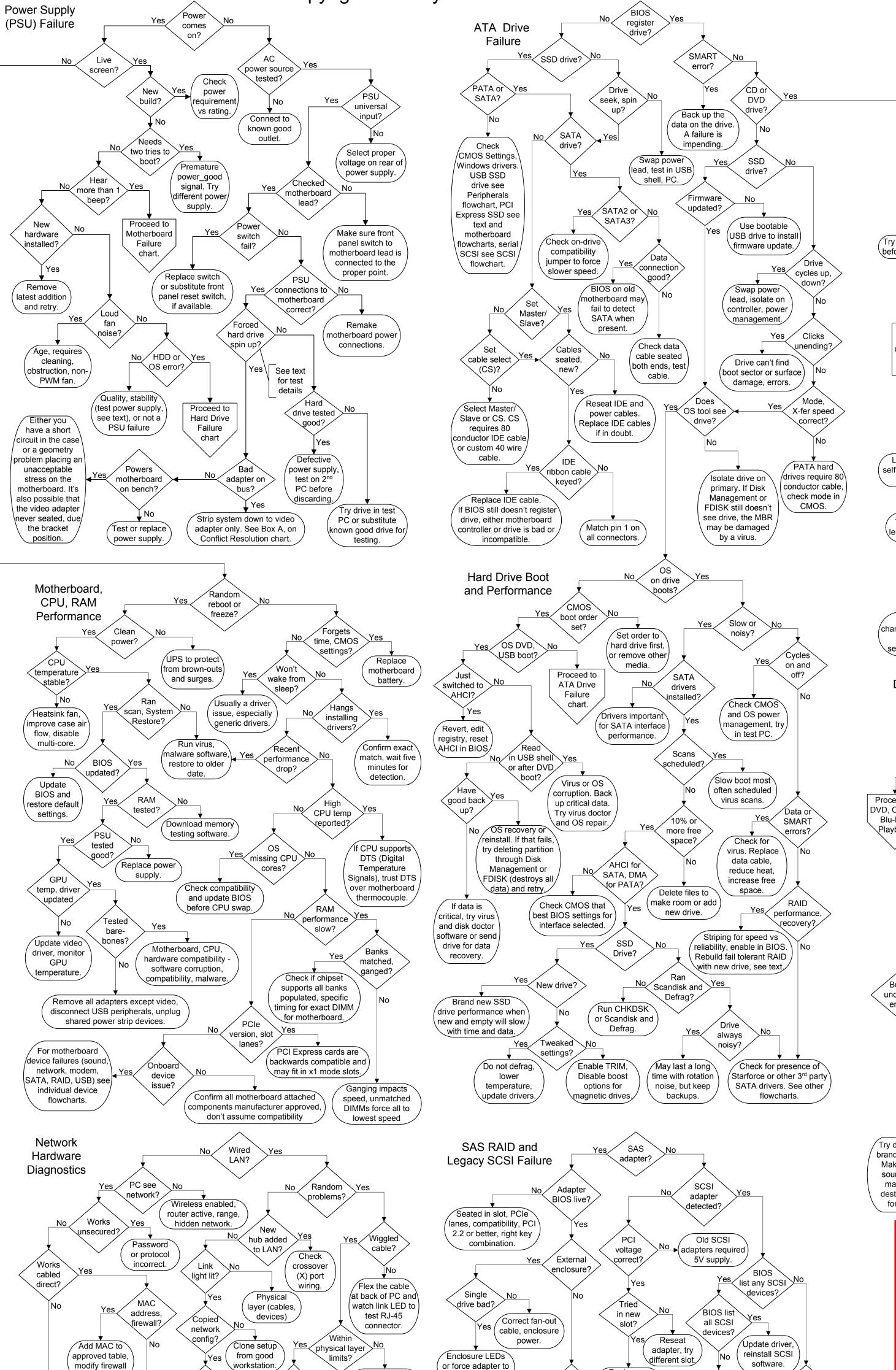
seated in the

monitor socket.

Boot Failure Troubleshooting Flowchart

From Computer Repair with Diagnostic Flowcharts, Third Edition

Copyright 2013 by Morris Rosenthal



Add repeaters

off network

Proceed to

Motherboard

Performance.

Bad patch or in-

wall cabling.

Fails on

traffic, # of

users?

blink LEDs.

RAID`

fails?

capacity, initialized,

compatibility,

software.

Isolate by adapter

and enclosure.

Check

adapter

maker

website for

new BIOS.

Yes_

(auto re-build)No

Replace or

Bus

ends?

terminated both Yes

SCSI

limits

obeyed?

SAS Yes

⟨ BIOS sees

drive?

Cable,

compatibility/

drive maker

test

software.

If using

external and

internal

devices, remove

adapter, terminate,

the devices on

cable ends.

Use shorter

cables, don't mix

devices with

cheaters.

erminator from host

/Mixed SAS

\and SATA?

Flashed

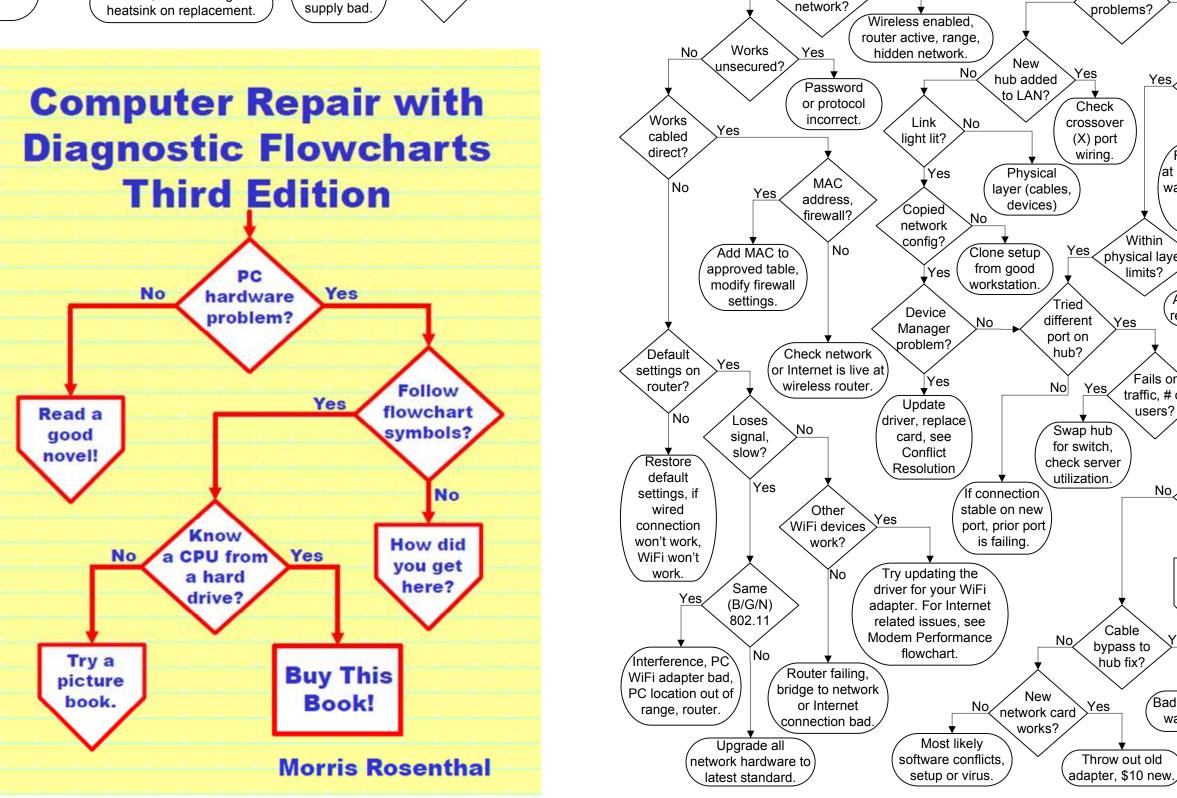
BIOS?

RAID tested,

expander

supported, tapes

or DVDs.



Repair Workbook software. Yes device ID's cables? unique? And want ORKBOOK Reseat all Got cash connectors Assign unique to throw SCSI ID's, adapter replacing away? ID should be 7 cable. and single device Take it to Cable work? a repair connectors seated?/ boutique adapter is probably dead. Reseat, discard Try it in a test cable if damaged. Live system before without discarding. laptops Determine problem through process of elimination. Try connecting each device to the host adapter by itself, following proper termination rules, and determine which one is spoiling it for the rest.

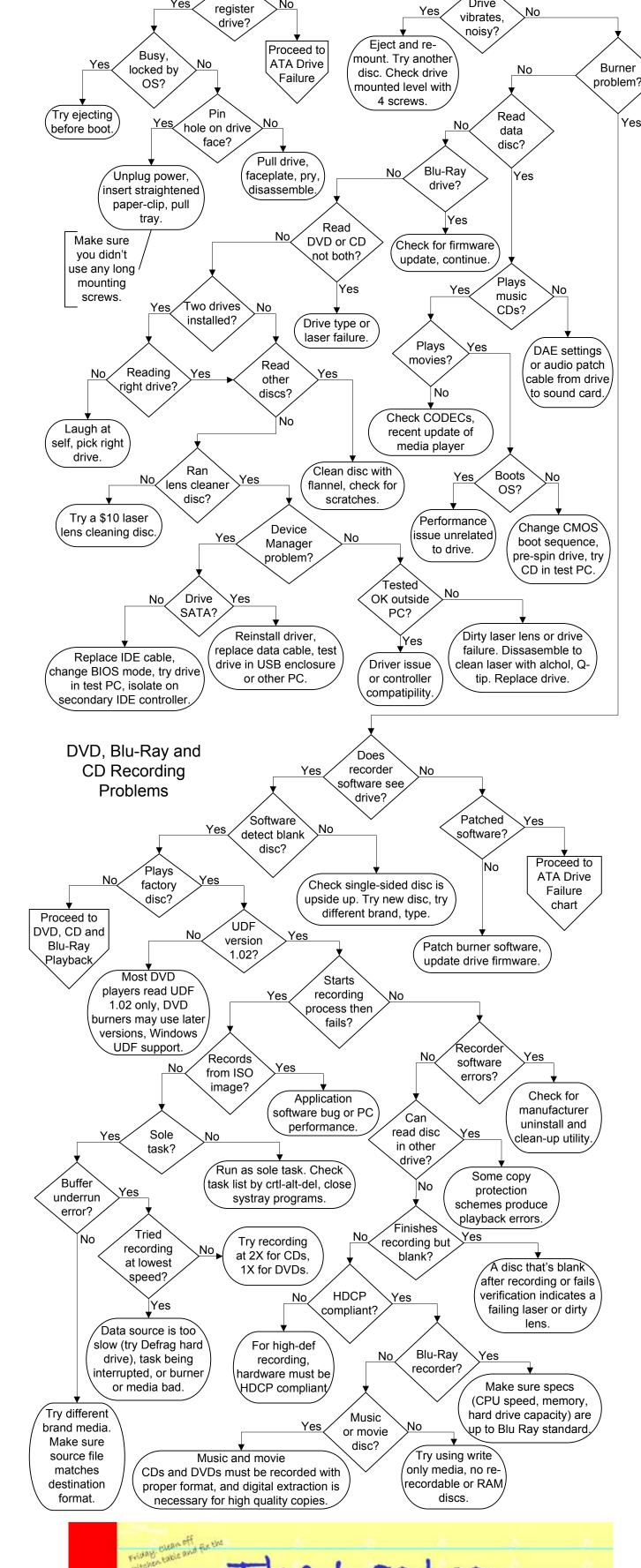
Interactive versions of eight of the seventeen flowcharts with text are available on my website

Power Supply Troubleshooting - www.fonerbooks.com/power.htm Video Failure Troubleshooting - www.fonerbooks.com/video.htm Motherboard, CPU and RAM Failure - www.fonerbooks.com/cpu ram.htm Hard Drive Failure - www.fonerbooks.com/ide hd.htm DVD, CD and Blu-ray Playback - www.fonerbooks.com/ide cd.htm Sound Failure - www.fonerbooks.com/sound.htm Network Hardware Troubleshooting - www.fonerbooks.com/network.htm Modem Failure - www.fonerbooks.com/modem.htm

ejects?

DVD, CD and

Blu-Ray Playback



problem?

Ready

to learn

something

new?

See? The

flowchart

works!

Buy this

book!

Morris Rosenthal