Citizen Engineer

Making a difference

Graeme Cross

Engineering

Science, technology & society

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How can we help society?

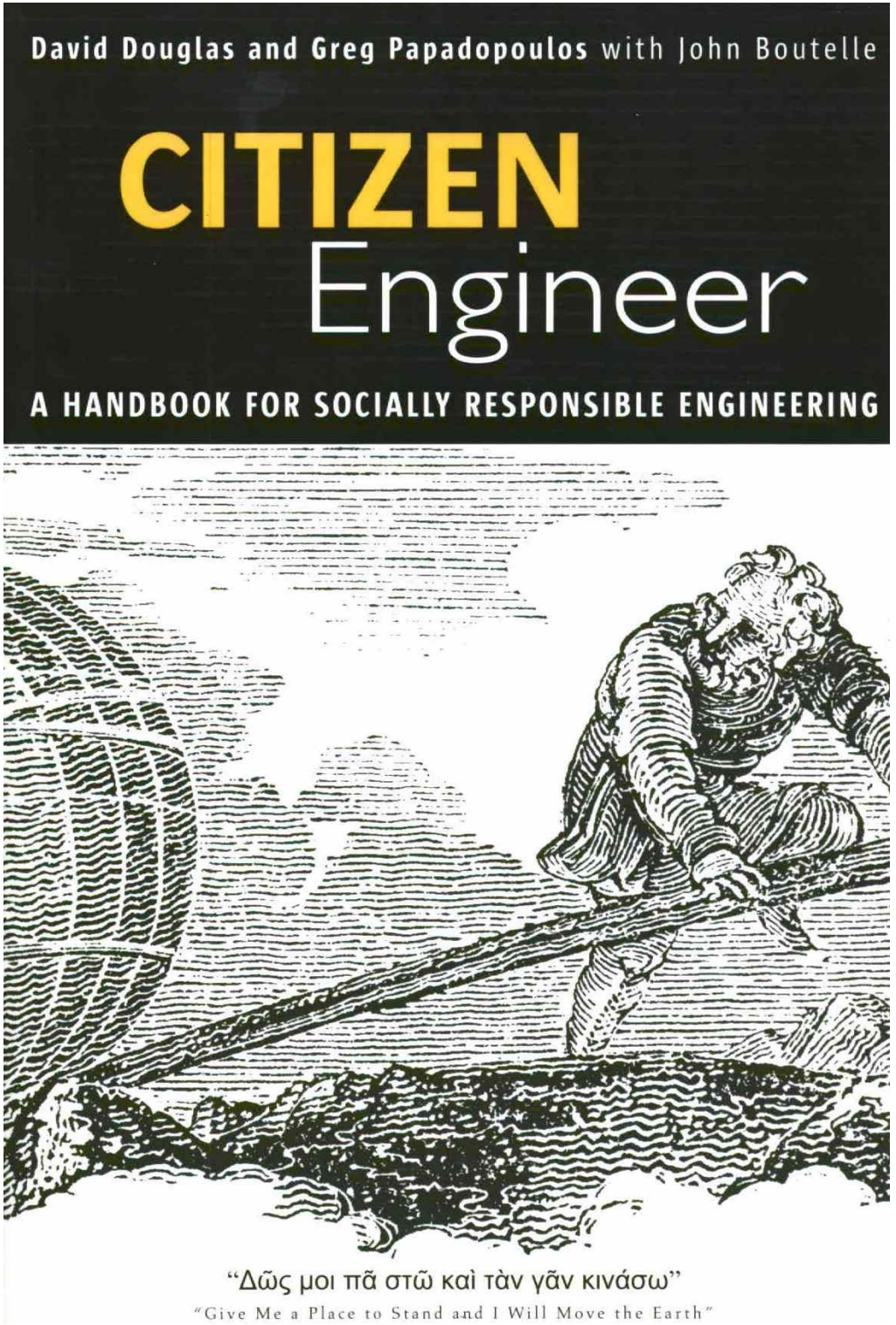
How can we shape the future?

We are uniquely placed

We are smart

We have skills

We have a responsibility


David Douglas and Greg Papadopoulos with John Boutelle
CITIZEN
Engineer
A HANDBOOK FOR SOCIALLY RESPONSIBLE ENGINEERING
"Δῶς μοι πᾶ στῶ καὶ τὰν γᾶν κινάσω"
"Give Me a Place to Stand and I Will Move the Earth"

How can we shape the future of society and the world?

We engage

We communicate

We lead

I don't have answers

But I do have suggestions...

Children

Nurture their innate curiosity

Foster their emerging creativity

Be a role model

Help
the IT teachers
at school

Inspire
the IT teachers
at school

Give a child a Linux Live CD

Teach them how to program

Help them build a game

Show them how to write a web app

Teach them how to use an Arduino

Give them a MindStorms kit...

Then help them build a robot with a RaspberryPi

Community

Set up websites for local community groups

Run courses at your neighbourhood community house

Donate PCs to local charities, NGOs and non-profits

Be the IT support for your local non-profit

Get involved in politics...

So you can help determine policy

Make politicians accountable

Write submissions for government strategy papers

Our rights

Lobby to protect...

...our freedoms

...our privacy

...our intellectual property

...our digital rights

Help with projects: TOR, GnuPG, SSH, PyCrypto...

Creative commons rather than walled gardens

Computing

Contribute to open source projects

Help your local user groups

No local user group?

Start one!

Educate yourself...

And then educate others

Speak at conferences

Blog:
preach, advocate, teach, persuade, challenge

The world

Reduce,
reuse, recycle

You may not solve climate change...

or cancer...

or peak oil...

You can help write the software for scientists

Write software that makes a difference

Random hacks of kindness

I believe...

One person can make a difference

A community can change the world

Thank you