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UK News Scientists Crack Maths Conundrum

Monday, 3rd March 2008, 13:05

The mystery of a 140-year-old maths conundrum has finally been cracked.

The breakthrough came in an area known as conformal mapping when a boffin at Imperial College, London finally fixed a vital flaw in a previous formula.

Mathematicians, engineers and scientists all use the technique to monitor airflow in aviation and to visualise the complicated structure of grey matter in the brain.

The current formula, called the Schwarz-Christoffel formula, was created in the mid-19th century by two German mathematicians to allow the mapping which translates information from a complicated shape into a simpler circular shape.

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But the whole time there has been a vital flaw in the formula which has meant that shapes that contained holes or irregularities - such as the shape having parts made of different materials - could not be mapped.

The formula is taught to all applied mathematicians and most engineers at university but the way they learn is set to change thanks to the breakthrough.

Professor Darren Crowdy, who made the breakthrough, says cracking the flaw took him 12 years and claims his additions to the formula could open up many new areas that the formula could be used in.

Prof Crowdy, Chair in Applied Mathematics at Imperial College London, said: "My interest in the area arose during the 90s whilst I was doing my PHD.

"I looked into the original formula and then found the deficiency which meant you could not map an object if it contained irregularities.

"I went to a conference in 2003 and heard people who had tried to solve the problem and saw how you could do it. It has taken since then to develop the formula and but I now have the final formula which is very elegant.

"It was very challenging to solve. It required certain expertise and I have been thinking about this for probably 12 years. It required a lot of experience and thinking.

"It is quite a big deal, this formula will appear in text \underline{books} now and result in a variety of scientific applications. I would not put my name to it but hopefully history will.

"The formula is used in any situation where we have flow, for example the airflow past and aircraft wing.

"If there was more then one thing getting in the way of this flow then the previous formula didn't work but now we have one that does no matter how many things are in the way.

"The maps are also used for brain imaging and things like measuring the stresses in elastic materials. People like to map out complicated bits into simple circles so they are easier to analyse.

"This formula is an essential piece of mathematical kit which is used the world over. Now, with my additions to it, it can be used in far more complex scenarios than before.

"In industry, for example, this mapping tool was previously inadequate if a piece of metal or other material was not uniform all over - for instance, if it contained parts of a different material, or had holes.

"With my extensions to this formula, you can take account of these differences and map them onto a simple disk shape for analysis in the same way as you can with less complex shapes without any of the holes."

Prof Crowdy's improvements to the Schwarz-Christoffel formula were published in the March-June 2007 issue of Mathematical Proceedings of the Cambridge Philosophical Society.

Professor John Elgin, Head of Mathematics at Imperial College, added: "Darren is perhaps the world's leading expert in solving challenging problems involving multiply connected geometries.

"This long standing classical problem was a natural one for him to tackle. It is an important result: his new formula will appear in the next generation of textbooks."

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Street Star In Hospital After Fall The actress who plays fearsome pensioner Blanche Hunt in Coronation Street is in hospital after a fall. Maggie Jones,	Fri 16:03
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Man Admits Pushing Doctor In Front Of Train A junior doctor pushed into the path of an oncoming train missed death by inches when she fell short of the electrified	Fri 12:44
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