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do you know how to make a working engine from soda cans you do now the quick and easy stirling engine book will show you every detail you need to know there are no difficult secrets and no expensive parts to buy with two soda cans and a few other materials you can build a running engine in just a few hours the engine featured in this book was designed for use in educational settings consulting with several educators this engine was designed so that it could be assembled with simple hand tools by most builders in about three hours the parts list is simple and affordable simple hand tools are all that is required for assembling this engine once assembled the engine will spin a flywheel when the bottom is heated and ice is placed on top this is a hot air engine design sometimes referred to as a stirling engine the engine makes motion by exercising a temperature differential the bottom half of the engine must be warmed to about 250 degrees f and the top of the engine must be cooled with cold water or ice when these conditions are present the engine will spin between 100 and 200 rpm the primary components of this engine are soda cans copper wire and an old cd the adhesive that is used for construction is readily available at hardware stores this engine is a fun project for students home builders hobbyists and anyone who wants to learn how to make their own hot air engine from soda cans

james stirling s methodus differentialis is one of the early classics of numerical analysis it contains not only the results and ideas for which stirling is chiefly remembered for example stirling numbers and stirling s asymptotic formula for factorials but also a wealth of material on transformations of series and limiting processes an impressive collection of examples illustrates the efficacy of stirling s methods by means of numerical calculations and some germs of later ideas notably the gamma function and asymptotic series are also to be found this volume presents a new translation of stirling s text that features an extensive series of notes in which stirling s results and calculations are analysed and historical background is provided ian tweddle places the text in its contemporary context but also relates the material to the interests of practising mathematicians today clear and accessible this book will be of interest to mathematical historians researchers and numerical analysts

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presents eleven projects demonstrating how to build simple fun and educational stirling engines from available kits

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