

Bookmark File PDF Basics Of Rc Model Aircraft Design Practical Techniques For Building Better Models Practical Techniques For Building Better Models

Basics Of Rc Model Aircraft Design Practical Techniques For Building Better Models Practical Techniques For Building Better Models

Examines new technologies that allow enthusiasts to access areas with electric models which were previously inaccessible. Offers advice on choosing a battery, tethered and free flight, simple and advanced radio control, indoor flight, build-it-yourself kits and exact scale flying.

All of your questions are answered in this comprehensive, up-to-date book on RC building and flying techniques! The publishers of Model Airplane News take you step-by-step through the basics of choosing and building your first model; covering and finishing it; understanding glow engines and making your model go; flight-training basics; your first ARF; prop talk; and so much more. Recommended.

The Boeing 787 is the new Boeing aircraft. It is currently in its development phase. Designers of this plane is made lot of research for this aircraft should be particularly fuel-efficient through the use of composite materials in the construction of the device and use of new reactors. It should enable airlines to reduce by nearly 20% in fuel consumption compared to aircraft of this size. This aircraft are expected to compete in the world of aircraft types and gain the admiration of the public . The Airbus product line started with the A300, the world's first twin-aisle, twin-engined aircraft. A shorter, re-winged, re-engined variant of the A300 is known as the A310. Building on its success, Airbus launched the A320, particularly notable for being the first commercial jet to utilize

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a fly-by-wire control system. The A320 has been, and continues to be, a great commercial success. The A318 and A319 are shorter derivatives with some of the latter under construction for the corporate business jet market as Airbus Corporate Jets. A stretched version is known as the A321. The A320 family's primary competitor is the Boeing 737 family. Development of a new manned ultralight FanWing is ongoing and presently planned for a first public flight at Oshkosh 2013. Reaction Engines has announced that it has successfully tested the key pre-cooler component of its revolutionary SABRE engine crucial to the development of its SKYLON spaceplane. The company claims that craft equipped with SABRE engines will be able to fly to any destination on Earth in under 4 hours, or travel directly into space. The McDonnell Douglas (now Boeing) F/A-18 Hornet is a twin-engine supersonic, all-weather carrier-capable multirole fighter jet, designed to dogfight and attack ground targets (F/A for Fighter/Attack). The Lockheed F-117 Nighthawk was a single-seat, twin-engine stealth ground-attack aircraft formerly operated by the United States Air Force (USAF). NASA has been exploring a variety of options. A comprehensive guide to designing radio control model airplanes. Andy Lennon presents a thorough and comprehensive introduction to the intriguing world of model aerodynamics. Whatever your modeling background, this book will be a valuable reference source in your R/C library and will never be outdated. Fully illustrated.

It's a lot easier to fly RC planes now than it used to be. There's been a revolution, thanks to the miniaturization and lower cost of tiny electronics and rechargeable batteries. These days you can buy a ready-to-fly plane, charge the battery, and be in the air within an hour. And that's part of the problem. Now it's so easy to get into the air, you can get there long before you're ready. Through trial and error, I've

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discovered which planes are the best for novice RC pilots.

There are dozens of choices, but relatively few have earned a place in this book. I've purchased and flown all of the planes mentioned here (along with other planes that didn't make it into this book). My recommendations are based solely on how the planes perform, the quality of the materials, and the manufacturer's customer support.

Building plastic model Aircraft is an amazing hobby that makes your imagination fly, it allows you to express your creativity and relaxes you. This book has been written as a guide for newcomers to the hobby, but it may also be helpful for anybody that enjoys building plastic model aircraft.

Presents information on flight operations in aircraft with the latest "glass cockpit" advanced avionics systems, covering such topics as automated flight control, area navigation, weather data systems, and primary flight display failures.

Build and fly your very own model airplane design. Using clear explanations, you will learn about important design trade-offs and how to choose among them. The latest research and techniques are discussed using easy to understand language. You will discover: The special challenges faced by the smaller models and how to overcome them. How to choose the right material for each part of the airplane. Easy rules for selecting the right power system, gas or electric.

When it makes sense to use one of the innovative KFM airfoils. Pros and cons of canard and multi-wing configurations. A step-by-step design process that includes goal setting and flight testing. In-depth discussions of important topics like airfoils and wing design. The sources of air drag and how to minimize their impact. ADVANCE

PRAISE "This book is a joy to read! The writing style and wit add dimension in a way that is rarely found in today's reference materials. If someone has considered designing their own airplane and been put off because of complicated

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formulas, vocabulary and reference style that would bore even an engineer, this will convince them to go ahead and try it. Written with real people in mind and not engineers - and I mean that in a good way. This is a book that will reside along the other favorites on my bookshelf. Carlos really managed to produce a book that will last a long time and become one of the standards for modelers." - Greg Gimlick, Electric columnist, Model Aviation magazine "RCAdvisor's Model Airplane Design Made Easy is the ultimate model airplane design book for both beginning and experienced modelers." - Richard Kline, Inventor, Kfm airfoils "RCAdvisor's Model Airplane Design Made Easy is a real contribution to the world's literature on the subject. It provides an excellent bridge between full scale aviation and aeromodelling, showing the relationship between the two, for better understanding of the differences and similarities which should be applied for good model performance. While thorough in detail, the book is also easily readable so that the information is simple to understand. It is a very good combination of theory and practical application. Nicely illustrated, the book is also full of common sense explanations and references to other sources of information." - John Worth, former President and Executive Director of the AMA "Carlos Reyes personally leads the reader through some basic aerodynamics, materials considerations, electric power system planning and a practical application of theory as it is applied to a finished flying model. The background history of various types of aircraft shows the development of aviation and how it relates to the models that we build and fly today, as well as how models have influenced general aviation. It is always exciting to find some 'new to me' concepts and theories, and there were several in this well-written narrative." - Ken Myers, Editor, Ampeer electric flight newsletter "No matter how long you've been aeromodelling, or what your interests are in our

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great hobby, the greatest thrill of all is standing behind a unique model that you've designed and built yourself, from a blank sheet of paper - or even a blank CAD file - and preparing to make that first take off. So sit yourself down in a comfy chair, read RCadvisor's Model Airplane Design Made Easy and set off on aeromodelling's greatest adventure. Let Carlos Reyes - an aeromodeller of long standing and great talent - take you through the mysteries of how to arrive at the point that every lover of model aircraft should experience." - Dereck Woodward, aeromodeller, designer and magazine writer for the past fifty years

Subtitled: Basic to Advanced Flying Techniques From the Pros. Over 30 knowledgeable RC pilots share their contest-winning flying techniques! Go hangar flying with these guys and listen-in as they discuss pylon racing, thermal soaring, operating twin-engin

Experience firsthand the joys of building and flying your very own model airplane design. Put into practice the lessons from my previous book, RCadvisor's Model Airplane Design Made Easy. Follow along as we design, build, and fly a modern radio-controlled model airplane. Lofty Design Goals

Incorporating the latest innovations and research results, the design looks deceptively simple. However, 20 prototypes had to be built before one finally met all the design goals: Build it in just one day for less than \$5. A joy to fly with no bad habits. Build either a park flyer or an indoor slow flyer. New pilots can fly it without ailerons. Sturdy enough to survive hard landings. Easy to build for new scratch builders. Kid-friendly free flight glider version. Use inexpensive electric power systems and radio gear. Great starting point for your own unique designs. You can easily find the construction materials for the airplane at local discount or craft stores. So what are you waiting for? An Inside Look at the Design Process The book starts by describing the goals and the long prototyping process that led

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to the final design. Along the way you get to see firsthand the challenges that creating an innovative design presents. Learn the reasoning behind all the decisions that led to this unique design. A stand-alone book, it is complemented nicely by RCadvisor's online model airplane calculator and my first model airplane design book. Picking up where that book left off, it takes a very pragmatic approach to the entire design process. Carlos Reyes founded www.RCadvisor.com in 2007. He's had a life-long love affair with aviation, building and flying model airplanes since childhood. He holds a Private Pilot-Glider license and is the Vice President of his local model airplane club. ADVANCE PRAISE "Carlos Reyes is quickly building a reputation as a talented and experienced RC model aircraft expert and author. His first book, titled RCadvisor's Model airplane Design Made Easy, set the stage for what I'm sure will be a series of books that will allow a rank beginner to get a start and then progress to any desired level in our wonderful hobby. The amount of detail in this new book is incredible and will certainly apply to many other aircraft that you build as you grow in the hobby. Carlos Reyes has a truly enjoyable style of writing. Fun to read while you are learning so much at the same time! This new book is excellent for any age group be they young or old. This is absolutely A MUST READ! I can only imagine (and look forward to) what book number three will be like!" - Bob Aberle, AMA 215, Technical Editor, Model Aviation magazine "I was really hoping Carlos' next book would be informative, entertaining, helpful, and have a brilliant educational aspect for RC flying hobbyists. However, this book didn't quite do this; it was BEYOND these expectations! Carlos kicks out another winner with this one. Yes, you can have entertaining and helpful media in RC other than podcasts!" - Jamie Burke, Host, www.AllThingsThatFly.com "Invading the mind of a designer is an intriguing adventure. After reading just the first

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chapter about the goals, along with what did and didn't work on the prototypes, I was eager to read on to see how the modified design worked out. Carlos continues by explaining what considerations were used, and how they were derived, to pick a "Winner" from the many prototypes. I carefully studied Carlos' ideas and techniques and learned a lot about designing this type of plane. I am so excited about the design that I just have to build one to try it out. - Ken Myers, Editor, The Ampeer

Fortæller om udviklingen af Canard-konstruktionsprincippet, om de specielle egenskaber, der er forbundet hermed, og om nogle af de fly, der er bygget efter dette princip.

High-speed flight is a major technological challenge for both commercial and business aviation. As a first step in revitalizing efforts by the National Aeronautics and Space Administration (NASA) to achieve the technology objective of high-speed air travel, NASA requested the National Research Council (NRC) to conduct a study that would identify approaches for achieving breakthroughs in research and technology for commercial supersonic aircraft. Commercial Supersonic Technology documents the results of that effort. This report describes technical areas where ongoing work should be continued and new focused research initiated to enable operational deployment of an environmentally acceptable, economically viable commercial aircraft capable of sustained supersonic flight, including flight over land, at speeds up to approximately Mach 2 in the next 25 years or less.

This manual quickly takes the newcomer to radio control foam building techniques up to expert level. This completely revised edition describes the choice of foam, materials for strengthening and covering, tools and glues to create not only wings but also fuselages, cowlings, moulding and much more. Flying radio-controlled model aircraft is one of the most

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enjoyable and absorbing hobbies that there is. It combines the fun of building and maintaining a real miniature aircraft with the challenge of flying it just like the real thing, and keeping the appropriate distance between the aircraft and the ground at all times! But the early stages of the hobby can be a steep learning curve, and it is all too easy to be put off by early mishaps. This book explains the principles of model flight in an easy-to-read text. It is a flight manual for any pilot of a fixed-wing model aircraft and includes details of internal combustion and electric-powered flight. It gives all the information required to become a successful pilot in the shortest possible time.

More than one hundred photographs tell the story of miniature aircraft, plus sources and illustrated tips. Seldom has a long-established hobby been transformed more than radio controlled model aircraft flying has been with the development of light-weight, inexpensive electric power systems. After decades of dominance by glow and gas powered internal combustion engines, the hottest thing in RC flying today is electric powered model aircraft. Energy dense lithium polymer batteries, powerful brushless electric motors and the digital devices that control them have taken the radio control hobby by storm. With them has come a veritable tsunami of molded foam models of nearly every type of airplane imaginable. Warbirds like the P-51 Mustang, aerobatic aircraft like the Edge 540 and a variety of trainers similar to the Cessna 172 fill the online marketplaces and the shelves of local hobby shops around the world. Traditional models, too, are being developed or converted to fly with electric power systems. These models have their own body of knowledge. Instead of tinkering with the needle valve settings of internal combustion engines, now modelers are computing watts, managing amps, determining volts and shopping for components that maximize power without exceeding the

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electronic limits of their model's components. RC Ground School provides you with the information you need to get started in the exciting hobby of model aviation. You'll get answers to these and other questions: What should I consider in choosing a model aircraft? What kind of transmitter should I consider? Should I go with a ready-to-fly kit or an almost-ready-to-fly model? What if I need to teach myself to fly? How can I find an instructor? How do I operate my model safely? How do electric models work? Come join the thousands of other modelers enjoying this fun and interesting hobby. RC Ground School is the perfect tool to help you get started. Already flying glow or gas airplanes? Thinking about converting to or adding an electric model to your hangar? The second half of the book is a deeper dive into what makes up an electric model's power system and what you'll need to know to convert that old friend to electric power or at least keep up with the conversations at the field.

The book focuses on the synthesis of the fundamental disciplines and practical applications involved in the investigation, description, and analysis of aircraft flight including applied aerodynamics, aircraft propulsion, flight performance, stability, and control. The book covers the aerodynamic models that describe the forces and moments on maneuvering aircraft and provides an overview of the concepts and methods used in flight dynamics.

Computational methods are widely used by the practicing aerodynamicist, and the book covers computational fluid dynamics techniques used to improve understanding of the physical models that underlie computational methods.

Basics of R/C Model Aircraft Design Practical Techniques for Building Better Models Motorbooks International

Every weekend thousands of people across the world drive to open areas fly their radio-controlled aircraft. This book is designed to give the complete low-down on the hobby to

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enlighten those who haven't yet taken the plunge, and to further the knowledge of flyers who want to improve, and fly more complicated and exciting airplanes. David Boddington has been flying and writing about radio-controlled aircraft for decades, and he passes on a great deal of accumulated experience in this highly illustrated book. Describing all the major types of aircraft and flying—from indoor electric-powered kites to quarter-full-size multi-engine turbojets—this book is the perfect introduction to this enjoyable hobby.

Features over 100 great how-to building and finishing techniques along with step-by-step photos and illustrations. Includes CG locators, working with balsa, Nyrod installation, construction, tool ideas, and much more.

Two leading experts introduce beginners to basic aerodynamic principles and the building techniques of master modelers. Their richly illustrated manual provides valuable information on every phase of assembling and flying model aircraft--from the correct methods of kit-building and paint and tissue covering to the secrets of selecting the best engine and radio-control rig for each plane.

Subtitled: Tips and Techniques for Beginner and Expert. This companion to Don Ross's immensely popular Rubber Powered Model Airplanes now opens the world of Electric Power, CO₂, Micro R-C, and even Compressed Air to beginner and expert alike. Ross leads you from simple tools and techniques right through to state-of-the-art materials that will enhance your model's appearance and increase its flight time 25 - 40 percent or more! Sftbd., 5 3/4"x 8 1/4", 240 pgs., 147 bandw ill.

All you need to know to make and fly your very own flying machine. Packed with information and photographs.

BUILD YOUR OWN REMOTE-CONTROLLED AIRPLANES QUICKLY, EASILY, AND INEXPENSIVELY! Take to the skies with a majestic motorized model aircraft you create and pilot

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yourself. Written by the founder of the Brooklyn Aerodrome, **DIY RC Airplanes from Scratch** shows you how to build a Flack (Flying + Hack) delta wing from the ground up using widely available, low-cost materials and tools. You'll also learn the skills you need to get your plane into the air and keep it there. By the end of the book, you'll be able to create your own customized designs. The sky's the limit! Discover how to: Select the components you'll need and get them at a low cost Build a sturdy deck and secure all of your airplane's electronics to it Construct the airframe with the proper trim and center of gravity Learn to fly--one crash at a time Diagnose and repair your airplane Decorate your aircraft for dazzling daytime flights Illuminate a night flyer with otherworldly effects Experiment with unique airframe shapes, including the Flying Heart, the Bat, and the Manta Ray Learn the basics of aerodynamics Devise, build, and fly your own unique designs Companion videos available at <http://brooklynaerodrome.com/bible>

This book is a guide both for beginners as well as improvers to model aircraft precision aerobatics, or F3A, competition focused on the UK. However, it is just as relevant anywhere else in the world as the issue of how to control an aerobatic model aircraft is not limited to a single geography! If you are not interested in entering competitions, this book will bring you some of the knowledge and techniques that you would only pick up by attending them. If you are sufficiently disciplined in your flying, there is no reason why you should not reach a good aerobatic standard after following the advice and guidance contained in this book. In short, this is the book I would like to have had when I took up aerobatics and first entered competitions. If like me, you have wanted to take up precision aerobatics but couldn't find any resources to help you, this is the book for you. The book covers the basics of starting aerobatic flying, from when you have just gone solo,

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to helping you to get ready to take up the challenge of flying in aerobatic competitions. The book contains advice on how to set up your aircraft covering for example: centre of gravity position; engine/motor thrust lines; and control throws. It then takes you through the basics of aerobatic manoeuvres with both diagrams and words. Once over this initial phase, you will get much more detail about set up and trimming as well as how to fly large smooth manoeuvres ultimately taking account of the impact of the wind on the flight. The book contains a chapter on mini training schedules that allow you to build up your skills before describing how to fly the entry level aerobatic competition schedule used in Great Britain. Finally, I have included references to how you can access the resources to help you to progress from a practical flying viewpoint. Peter Jenkins has been flying model aircraft since he was a teenager but only entered aerobatic competitions just over 10 years ago. He has organised and run a number of introductory courses to coach newcomers to start and others to improve their aerobatics. He continues to organise aerobatic competitions for the GB National League and to act as Contest Director. He is a qualified instructor and examiner for the UK's largest model flying association, the BMFA of which he was a Director for 6 years. He has also held a private pilots' licence and flew and instructed on full size gliders for many years. Peter currently flies the FAI(P) schedule in domestic competitions in GB.

This book is about my memories of over fifty years of flying radio controlled model airplanes. Back in the mid 1960's after finishing my education I took up my old hobby again. First I tried single channel with rubber powered compound escapements moving the rudder. One pulse for right rudder, two for left and three pulses activated the secondary escapement for a one stage change throttle setting. A one stage change meant the throttle moved from, for instance,

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low to medium. Every time the throttle setting required adjustment the whole sequence was repeated all over again. Fifty years later we have graduated to a Spektrum computer radio with fully programmable features and settings for seven ch wing types all this on 2.4 gigahertz frequency so that dozens of models can operate simultaneously without interference.

A vital resource for pilots, instructors, and students, from the most trusted source of aeronautic information.

Project Report from the year 2012 in the subject Engineering - Mechanical Engineering, grade: A, DeVry University, course: ECET 494, language: English, comment: This Senior Project is a documentation of the technical and software programming parameters involved in realizing the projects solutions. There was no factual flight presentation video. It was not practical given the geographical location of the team involved., abstract: The objective of this project is to design, build, and operate a GPS-Guided Autopilot system for Radio Controlled Aircraft. This product will have to be small, lightweight, aerodynamic, and modular. It will only have to rely on 1 channel input from the aircraft receiver for the RC/Autopilot switching function. It will have to be able to fly a predetermined route while having the ability for the consumer to override the autopilot feature if desired by using their remote control. Our RC aircraft autopilot system will be interfaced with a computer in order to program the way-points that will make up the flight plan. All of these objectives are critical in order to have a functional RC aircraft autopilot system. Our time frame for completion of this project is 32 weeks and our target for total cost for the build is \$500. The product that we are proposing is a GPS-Guided Autopilot System designed for radio-controlled aircraft. This project is a modular RC/Autopilot Aircraft System that will be designed for small, inexpensive, and basic radio controlled unmanned

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aerial vehicles. Although our target market will be RC hobbyists that are interested in flying their airplanes autonomously, our system will also have the potential to expand to larger markets such as hobbyists flying helicopters as well as Unmanned Aerial Vehicles used in the military. There will be three phases to this project, Phase (1) is our goal and is dedicated as the Autopilot function once the aircraft has reached altitude. Phase (2) is the addition of Autopilot landing, and Pha

The second edition of Flight Stability and Automatic Control presents an organized introduction to the useful and relevant topics necessary for a flight stability and controls course. Not only is this text presented at the appropriate mathematical level, it also features standard terminology and nomenclature, along with expanded coverage of classical control theory, autopilot designs, and modern control theory. Through the use of extensive examples, problems, and historical notes, author Robert Nelson develops a concise and vital text for aircraft flight stability and control or flight dynamics courses.

Describes the hobby of building and flying radio-controlled model airplanes. Discusses tools needed, organizations to join, and basic safety rules.

This is a fully updated version of the classic introduction the radio controlled flying hobby which discusses model designs, building or buying, engine & radio technology, and the basics of flying. The new edition gives special attention to the burgeoning "ready-to-fly" market & the products that are available.

This is the latest edition - fully revised and updated - of the standard textbook on aerodynamic theory, as applied to model flight. Everything is explained in a concise and

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practical form for those enthusiasts who appreciate that a better understanding of model behaviour is the sure path to greater success and enjoyment, whether just for fun or in competition. The revisions for this new edition reflect the significant developments in model aircraft during the last few years, and include brand new data: * The chapter on aerofoils has been rewritten to take account of the vast amount of testing carried out recently in the USA by the University of Illinois. * A brand new chapter explains the latest research into the flight of birds and insects and how it is applied to small drones and model-sized surveillance aircraft. * Older wind tunnel test reports all replaced with the latest trials and measurements.

Electric Remote Control Aircraft have taken over the RC flying hobby over the last few years. Electric RC Aircraft: A Complete Resource gives you everything you need to know in order to get started or update your knowledge when it comes to RC electrics. We cover batteries, motor types, electronic systems and we tell you what you need to know in order to purchase the right aircraft and how to learn how to fly it in the best and easiest way. Electric RC Aircraft goes through the technology used in making aircraft lighter and faster and let's you understand how this affects the way these aircraft fly. Learn the precautions and preparations you should do in order to have the best chances of a great flight! Most important, Electric RC Aircraft gives you the information and skills you need to have the most fun and enjoyment out of this great activity. We shorten the learning curve and get you in the air fast while showing you how to fly safely and

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properly. We cover everything you need to know about RC aircraft in just one easy and fun to read book. We are sure this book will take an electric RC flier, whether it be helicopter or airplane, to the next level. We cover both and give you what you need to have fun and get the most out of your helicopter or airplane

Flite Test is all about helping people experience the wonder of flight. Following hundreds of videos online, this debut publication packs the absolute essentials of Radio Controlled aircraft into an easy-to-read yet detailed handbook. Want to learn how to fly? No problem. R/C Airplanes is designed to help you take your first steps in this hobby in the new age of advanced yet inexpensive electric model airplanes. Within this detailed guide, you'll learn all about:*

- * choosing the right aircraft for you*
- * The inner electronics of an R/C plane and radio control systems*
- * The essential aerodynamics needed to understand flight*
- * How to fly an R/C airplane from short hops to full flights*
- * Tips for fixing and maintaining your R/C model

This book discusses aircraft flight performance, focusing on commercial aircraft but also considering examples of high-performance military aircraft. The framework is a multidisciplinary engineering analysis, fully supported by flight simulation, with software validation at several levels. The book covers topics such as geometrical configurations, configuration aerodynamics and determination of aerodynamic derivatives, weight engineering, propulsion systems (gas turbine engines and propellers), aircraft trim, flight envelopes, mission analysis, trajectory optimisation, aircraft noise, noise

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trajectories and analysis of environmental performance.

A unique feature of this book is the discussion and analysis of the environmental performance of the aircraft, focusing on topics such as aircraft noise and carbon dioxide emissions.

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