

BEAUTY AND THE BEAK

THE INSPIRING STORY OF A BALD EAGLE AND HER 3D-PRINTED PROSTHETIC BEAK

CALIFORNIA READS
Teacher Recommended Books
California Teachers Association

Beauty has been featured on Nat Geo Wild TV's *Unlikely Animal Friends*, in the National Wildlife Federation's *Ranger Rick* magazine, and on the National Academy of Engineering (NAE) EngineerGirl website.

"Our classrooms desperately need powerful true stories like Beauty and the Beak to inspire students to read informational text and to learn to care for our world one creature at a time! Beauty and the Beak provides many opportunities for students to think critically and discuss important issues surrounding the environment. Students naturally gravitate to reading books about animal rescues and learning how human carelessness often endangers wildlife. Beauty and the Beak presents exciting ways students can learn about and help endangered species."

—Lori Oczkus, national literacy expert and author

With special content from the Cornell Lab of Ornithology.

The **Cornell** Lab of Ornithology

\$16.95 USA / \$21.99 Canada



Printed in China



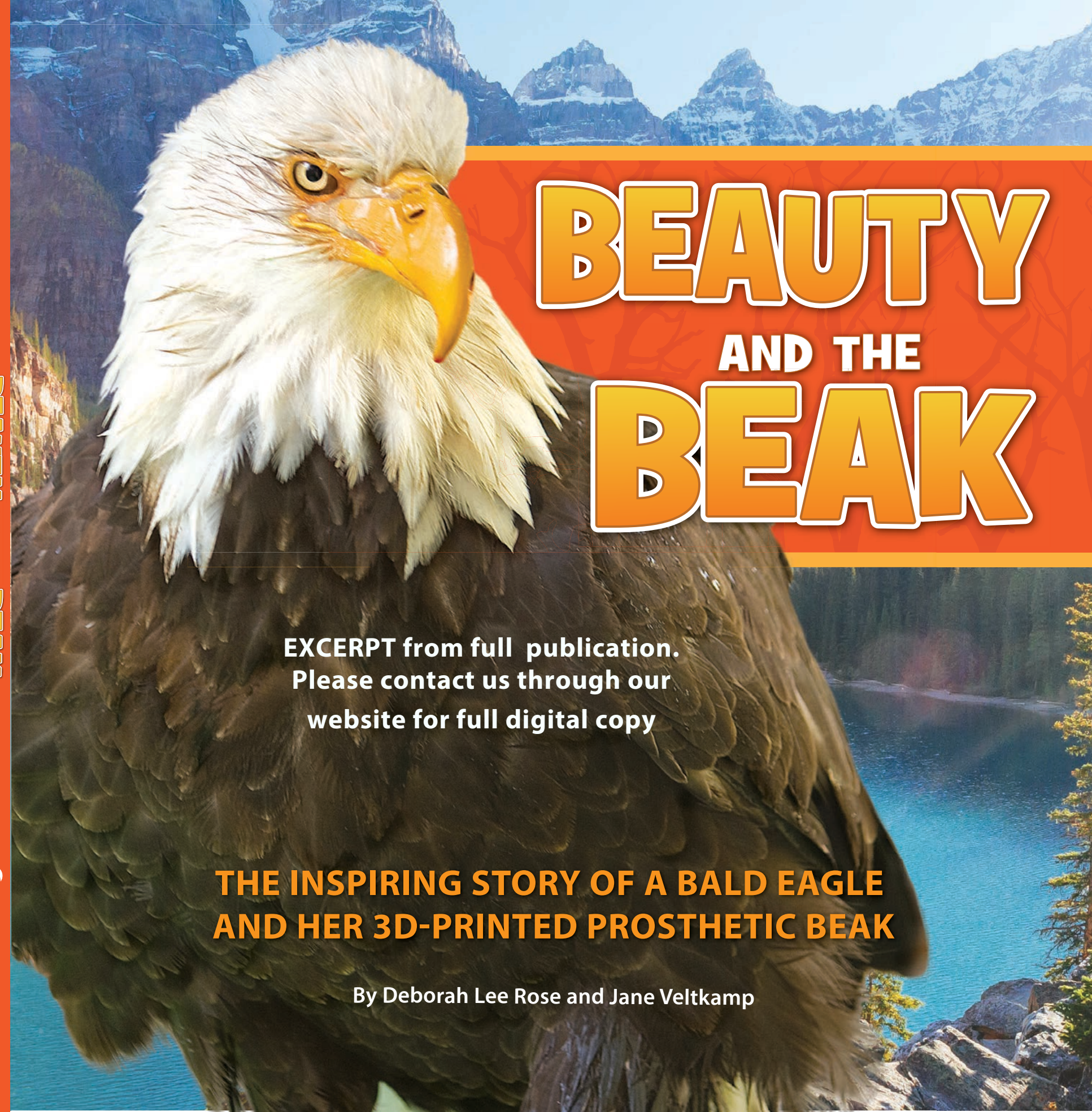
Available on iTunes
and Android stores.

This book is compatible with our FREE Bird QR app, which lets you tap to listen and learn about the Bald Eagle.

Rose • Veltkamp

BEAUTY AND THE BEAK

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BEAUTY AND THE BEAK

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website for full digital copy

THE INSPIRING STORY OF A BALD EAGLE
AND HER 3D-PRINTED PROSTHETIC BEAK

By Deborah Lee Rose and Jane Veltkamp



BEAUTY the Bald Eagle is wild and free, a powerful hunter in the sky until she is shot and her beak is shattered. This is the true story of how science and engineering gave her a new beak.

From a tiny chick breaking out of her egg, to a fullgrown raptor ripping off pieces of her prey to eat, Beauty the Bald Eagle must use her beak to survive in the wild. Then one day she is shot, and the top of her beak is shattered, leaving her starving and helpless.

Rescued in Alaska, Beauty is brought by raptor biologist Janie Veltkamp to her Birds of Prey Northwest raptor center in Idaho. Janie has a special idea to help Beauty by somehow giving her a new beak, but how? When Janie teams up with engineer Nate Calvin, together they design Beauty's prosthetic beak and make it using 3D printing. After many months of design, testing, and retesting—and three hours of intense beak surgery—Beauty's new beak is finally attached. Will it work?

Beauty's inspiring, true story, told here with stunning photographs, has captured the hearts of both children and adults ever since her pioneering surgery. She is a symbol of how human innovation is combining science, engineering, and technology to offer hope for animals (as well as humans) challenged by the loss of a limb or other body part from injury or disease.

BEAUTY AND THE BEAK also captures the spirit of the United States national symbol—the Bald Eagle. This species was endangered by human activity, but is now thriving thanks to Bald Eagle conservation efforts and human compassion.

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DEBORAH LEE ROSE is an internationally published, award-winning author of children's books including the alphabet and counting classics *Into the A,B,Sea* and *The Twelve Days of Kindergarten*. *Jimmy the Joey*, about a koala rescue, is a RIF/Macy's Multicultural Collection title and Notable Social Studies Trade Book for Students K-12. Deborah helped create and directed communications for the ALA/AASL honored STEM website *Howtosmile.org*. She was also Director of Communications for Lindsay Wildlife Experience, which includes the first wildlife hospital in the U.S. Visit deborahleerose.com.



JANE VELTKAMP is a raptor biologist and rehabilitator, wildlife educator, trained nurse, and master falconer. She has lifetime care of Beauty the Bald Eagle and led the engineering team who made Beauty's prosthetic beak. Jane is founding director of Birds of Prey Northwest, in Idaho, which educates the public about raptor conservation, including through live raptor programs, and has provided medical treatment and rehabilitation to thousands of injured birds of prey. She is the eagle expert for the Coeur d'Alene Tribe's Native American Aviaries. Visit birdsofpreynorthwest.org.

Deborah Lee Rose photo by Ellen B. Smith
Jane Veltkamp photo by Glen Hush © Jane Veltkamp

Persnickety Press
120 North Salem Street
Apex, NC 27502
Persnickety-Press.com

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Photos by Glen Hush, Michele Barker,
and the U.S. Fish and Wildlife Service National Digital Library



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an acknowledged review.

Designed by Patricia Mitter

Library of Congress Cataloging-in-Publication
Data available.

ISBN: 978-1-943978-28-1

Manufactured in China

10 9 8 7 6 5 4 3 2 1



Produced by
Persnickety Press
120A North Salem Street
Apex, NC 27502
Persnickety-Press.com

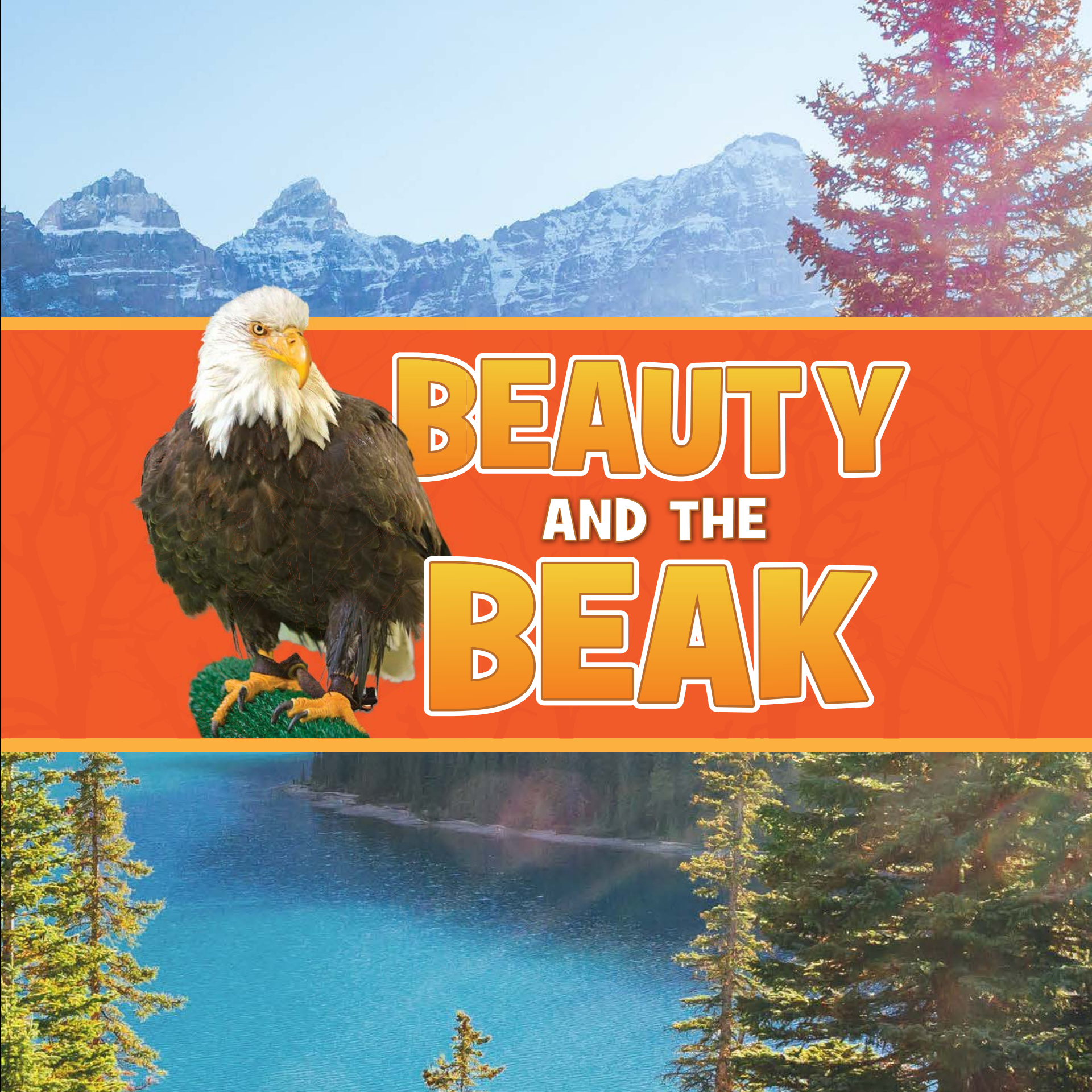
cpsia tracking label information
Production Location: Everbest
Printing, Guangdong, China
Production Date: 4/15/2017
Cohort: Batch No. 68113

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*For Ken, who shares the wonder of
watching eagles with me—DLR*

*For Don, who shoulders with me the
challenges and rewards of helping
birds of prey—JV*



About The Authors



DEBORAH LEE ROSE is an internationally published, award-winning author of many beloved children's books. Her newest book *Beauty and the Beak: The Inspiring Story of a Bald Eagle and Her 3D-Printed Prosthetic Beak* is a CALIFORNIA READS recommended title of the California Teachers Association. *Jimmy the Joey: The True Story of an Amazing Koala Rescue* is a Reading is Fundamental/Macy's Multicultural Collection title and Notable Social Studies Trade Book for Students K-12. *Into the A, B, Sea* was named to the NY Times 100 Books to Read and Share. Deborah helped create and directed communications for the ALA/AASL award-winning, national STEM education website *Howtosmile.org*, and helped created STEM activity apps for Lawrence Hall of Science which have been downloaded more than one million times. She also served as Director of Communications for Lindsay Wildlife Experience, which includes the first wildlife rehabilitation hospital established in the U.S. She lives in Walnut Creek, CA, in the San Francisco Bay area and speaks at book events, conferences, schools and libraries across the country. Visit her website at DeborahLeeRose.com.



JANE VELTKAMP is a raptor biologist and rehabilitator, wildlife educator, trained nurse, and master falconer. She is coauthor of the new book *Beauty and the Beak: The Inspiring Story of a Bald Eagle and Her 3D-Printed Prosthetic Beak*, a CALIFORNIA READS recommended title of the California Teachers Association. She led the team who developed Beauty the Bald Eagle's prosthetic beak, and has lifetime care of Beauty. She is founder and executive director of Birds of Prey Northwest, in Idaho, a raptor center which educates the public about raptor conservation, including through live raptor programs, and has provided medical treatment and rehabilitation to thousands of injured birds of prey to return them to the wild. She spent ten years of her career reintroducing Ospreys and Peregrine Falcons to regions where they had disappeared from their habitat in South Dakota and Indiana. She rescues and cares for Bald Eagles, including Beauty, by permit from the U.S. Fish and Wildlife Service. She lives near Coeur d'Alene, Idaho, and is also the eagle expert for the Coeur d'Alene Tribe's Native American Aviaries. Visit her website at BirdsOfPreyNorthwest.org.